QUARTER 4: Highlights of Vote Performance

V1: Summary of Issues in Budget Execution

This section provides an overview of Vote expenditure

(i) Snapshot of Vote Releases and Expenditures

Table V1.1 below summarises cumulative releases and expenditures by the end of the quarter:

Table V1.1: Overview of Vote Expenditures (UShs Billion)

(i) Excluding	Arrears, Taxes	Approved Budget	Cashlimits by End	Released by End	Spent by End Jun	% Budget Released	% Budget Spent	% Releases Spent
	Wage	3.720	3.720	3.720	3.720	100.0%	100.0%	100.0%
Recurrent	Non Wage	2.197	2.185	1.951	1.951	88.8%	88.8%	100.0%
Б. 1	GoU	8.323	7.344	7.557	7.471	90.8%	89.8%	98.9%
Developmen	nt Donor*	0.000	N/A	0.000	0.000	N/A	N/A	N/A
·	GoU Total	14.240	13.249	13.229	13.143	92.9%	92.3%	99.3%
Total GoU+D	onor (MTEF)	14.240	N/A	13.229	13.143	92.9%	92.3%	99.3%
(ii) Arrears	Arrears	0.000	N/A	0.000	0.000	N/A	N/A	N/A
and Taxes	Taxes**	0.000	N/A	0.000	0.000	N/A	N/A	N/A
	Total Budget	14.240	13.249	13.229	13.143	92.9%	92.3%	99.3%
(iii) Non Tax	Revenue	0.100	N/A	0.000	0.000	0.0%	0.0%	N/A
	Grand Total	14.340	13.249	13.229	13.143	92.2%	91.6%	99.3%
Excluding	g Taxes, Arrears	14.340	13.249	13.229	13.143	92.2%	91.6%	99.3%

^{*} Donor expenditure information available

The table below shows cumulative releases and expenditures to the Vote by Vote Function:

Table V1.2: Releases and Expenditure by Vote Function*

Billion Uganda Shillings	Approved	Released	Spent	U	% Budget	%
	Budget			Released	Spent	Releases Spent
VF:0651 Industrial Research	14.34	13.23	13.14	92.2%	91.6%	99.3%
Total For Vote	14.34	13.23	13.14	92.2%	91.6%	99.3%

^{*} Excluding Taxes and Arrears

(ii) Matters to note in budget execution

During FY 15/16 the major challenges faced by the institute while executing the budget include but not limited to:

- 1.Inadequate budget allocation under MTEF (UIRI should be funded with 21bn per financial year as per NDP aspirations)
- 2. Continued deficits between allocated and actual released budget funds (UIRI has a shortfall of 1.01bn)
- 3.Lack of counterpart funding (USD 590,000) to facilitate project preparation for Machining, Manufacturing and Industrial Skills Training Centre (MMISTC), Kampala Industrial Business Parks (KIBP), Namanve.
- 4.The USD 2M promised by government as supplementary to MSI Project (2007-2012) has never materialized. The World bank had offered to fund USD 2M however MOFPED declined on the basis that they could provide the funding as per commitment but in vain
- 5.Requirement of counterpart funding of equivalent R2M for Essential Oil Project has not yet materialized 6.Inadequate budget. UIRI requires a one off UGX 24.8bn to be able to fast track progress on Research and Development Projects, technology transfer and business incubation

^{**} Non VAT taxes on capital expenditure

QUARTER 4: Highlights of Vote Performance

- 7.Slow technology uptake
- 8. Disconnect in priority planning and financing
- 9.Un-facilitated business environment for local entrepreneurs
- 10.Insufficient staffing (230 positions in the staff structure remain unfilled) UIRI requires UGX 1.2bn for recruitment of high caliber scientist & engineers and 2.4bn retention of its workforce as the institute is currently faced with a very high staff turnover.
- 11.Lack of funds to support commercialization of innovations, technologies and products (Industrialization and Innovation Fund)
- 12. Inadequate remuneration for retention of highly skilled scientists and engineers
- 13. Absence of critical technical skills
- 14. Project life span vis via actual completion due to funding gaps
- 15. Weak inter-institutional cohesion and cooperation
- 16.Limited levels of entrepreneurial competences in our society / Low entrepreneurial spirit
- 17. Decrepit infrastructure and limited connectivity
- 18.Governmental and societal ambivalence with regard to R&D

Table V1.3: High Unspent Balances and Over-Expenditure in the Domestic Budget (Ushs Bn)

(i) Major unpsent balances

(ii) Expenditures in excess of the original approved budget

* Excluding Taxes and Arrears

V2: Performance Highlights

This section provides highlights of output performance, focusing on key outputs and actions impelemented to improve section performance.

Table V2.1: Key Vote Output Indicators and Expenditures³

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
Vote Function: 0651 Industr	ial Research		
Output: 065101	Administation and Support Servi	ces	
Description of Performance:	- Recruit 45 New Employees	- 2 New Employees were recruited	
	-Undertake staff training and		
	skills development	- 2 Employees left the Institute	
	- Pay off current staff salaries	- Salarie and benefits of 259	
	and benefits	employees were paid	
	- Insure Institute Assets	- Insured Institute Assets	
	Equipment, Vehicles, IT Servers	Equipment, Vehicles, IT Servers	
	and IT Equipment	and IT Equipment	
	Subscriptions	- Paid for some Subscriptions	
	Online Membership		
	subscription for		
	1.AOAC (Association of		
	Analytical Chemists		
	2.American Public Health		
	Association		
	3. Science Direct Journal.		
	4.Laboratory Proficiency		
	Testing Schemes (PTS)		
	5.Annual Subscription for		
	•PTS, •AgriLASA,		

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
Output Cost.	•EAC •SADCMET •FAPAS (as a requirement for Accreditation of the laboratory) : UShs Bn: 6.018	8 UShs Bn: 5.671	% Budget Spent: 94.2%
= = = = = = = = = = = = = = = = = = =		5 USIIS BII. 3.071	% Budget Spent. 94.2%
-	Research and Development The different sections engaged in Research and Development shall undertake as follows Production Systems shall 1.Formulate and develop chicken feeds out of the bio waste of fruit waste 2.Formulate and develop Jackfruit jam 3.Formulate and develop Pomegarnate juice 4.Formulate and develop Sugar cane syrup and jam 5.Formulate and develop healthy Green tea drinks 6.Formulate and develop healthy cocktail (pumpkin, lemon & passion) 7.Formulate and develop pumpkin powder Under the Food Laboratory 8.Food Laboratory remains committed to undertake food product development, and related research 9.Study the stability of curcuminoids and lignans in foods 10.Analysis of milk using lactoscan hence the need to procure consumable materials including alkali 11.Analysis of juices for TTA, Phhe need to procure consumable materials including indicator 12.Testing products under development for temperature, moistureQ1,Q2, Q3Moisturemeter 13.Carryingout milk platform tests he need to procure consumable materials including a base 14.3 types of Breakfast cereals will be madehence the need to procure, production materials including raw materials and packaging 15.4 types of Instant porridges will be madehe need to procure production materials including raw materials and packaging	UIRI continues to provides product and industrial process development services through •Product formulation and development •Testing and microbiological and chemical quality assurance; •Provision of analytical services, since chemical composition and microbiological quality is a critical determinant of competitiveness of manufactured products. •As a modern research center we facilitate utilization of biological and biochemical systems for transformation of natural resources for economic benefits. •Process designs •Appropriate technology design	The 1.64bn FY 15/16 shortfall caused delays for most projects for instance delyed processing of second installment to AVI-farms for production eggs have crippled our ability to meet special order request arrangements we have with organisations such as BRAC Uganda Stability Trials for Introduction of new dosage forms for 100 and 200 doses Dossier Compiled and Awaiting Submission once funds are available None A number of model value addition centers delayed

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	raw materials, packaging, emulsifiers, stabilisers and		
	preservatives		
	16.2 types of nooddles from		
	local food material will be		
	developedhe need to procure		
	production materials including appropriate packaging		
	17. 7 gas mixtures for MAP		
	packaged fruits, vegetables,		
	meats, bakery products, dairy		
	products will be developedhe		
	need to procure raw materials		
	and appropriate packaging 18.5 levels of Production of		
	pectinhe need to procure		
	production materials		
	19.Develop breakfast cereals,		
	instant porridges, nooddles		
	from local foods like cassava and sweet potato		
	20.Improve on food packaging		
	technologies for meats, fruits,		
	vegetables, baked products		
	using modified atmosphere		
	packaging (MAP) as a		
	preservation procedure that doesn't use chemicals		
	21.Producing pectin from fruit		
	wastes, extraction of plant and		
	animal materials that can be		
	used as ingredients during		
	product development.		
	22.Enable physical preservation of fluid foods at laboratory level		
	before packaging		
	23. Fast and efficient drying of		
	food products during product		
	development		
	Microbiology shall develop 3 Products		
	Troducts		
	24.Research & development of		
	shea/Bentonate Anti-Acne, anti-		
	wrinkle creams, shampoo, face		
	scrub, toner & moisturizer 1st, 2nd, 3rd and 4th		
	QuartersChemicals& reagents		
	for cosmetics formulation		
	25.Research & development of		
	an antibacterial soap 1st, 2nd,		
	3rd and 4th QuartersChemicals & reagents for cosmetics		
	formulation		
	26.Research & development of		
	Spirulina1st, 2nd, 3rd and 4th		
	QuartersLaboratory consumables	S	
	Research projects applied shall		
	include 27.Design & Dev't of		

ote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	production process of an		
	antibacterial herbal remedy1st,		
	2nd, 3rd and 4th		
	QuartersMaterials & Equipment 28. Field trial of Aflatoxin		
	Biosensor in Arua 2nd		
	QuarterMaterials, Equipment		
	and subsistence allowances		
	Research Projects shall be		
	initiated shall include		
	29. Pro-Lactic acid production		
	from cassava1st, 2nd, 3rd and		
	4th QuartersMaterials, Equipment and subsistence		
	allowances		
	30.Bioplastics development 1st,		
	2nd, 3rd and 4th		
	QuartersMaterials, Equipment		
	and subsistence allowances		
	31.Biosurfactants for		
	environmental		
	bioremediation1st, 2nd, 3rd and		
	4th QuartersMaterials, Equipment and subsistence		
	allowances		
	32.Biosensors and		
	Bioengineering1st, 2nd, 3rd and		
	4th QuartersMaterials,		
	Equipment and subsistence		
	allowances		
	Chemistry laboratory		
	33.Routine Laboratory analysis,		
	Research & Development 34.Procurement of Laboratory		
	standards chemicals, Reagents,		
	Apparatus and other lab		
	materials.		
	35.Procurement for Soxtec		
	system (Fat content), Fibertec		
	system(fiber content) & Kjeltec		
	system (protein)		
	36.No. of product analyses		
	undertaken1000Routine analysis of External and Internal	j	
	laboratory samples, food, juice,		
	water & waste water, drugs,		
	minerals, soap, Detergents,		
	cosmetics, natural products and		
	petroleum products		
	The Chemistry Laboratory shall		
	undertake five product		
	formulations		
	37. Formulation of shoe polish,		
	38.car polish, 39.sanitizers,		
	40.match box, and		
	41.Anti-microbial agents using		
	local raw materials in Uganda		
	The Chemistry Laboratory		
	Research projects shall include.		

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	42.Antimicrobial activity of		
	banana flowers extract against		
	bacteria		
	43.Application of zeolites in removal of heavy metals in		
	wastewater.		
	44.Isolation of curcuminoids		
	from turmeric plant. 45.Commercialization of		
	flavored clay pot water		
	The Materials and Minerals		
	Engineering Division The Materials and Minerals		
	Engineering Division looks to		
	innovate the following new		
	technologies 46.Production of recycled Glass		
	Products		
	47.Production of concrete Tiles		
	and Pavers		
	48.Production of plastic		
	Recycled Products		
	49.Undertake the physical and		
	chemical analysis of the different mineral ores used in		
	the section		
	50.Refinement of production of		
	cups, plates and saucers		
	51.Undertake R&D in Bentonite		
	and Allied requiring chemicals		
	& Reagents		
	52.Undertake R&D in Artificial		
	Ceramic Corals in fish breeding 53.Undertake R&D in		
	Gemstone cutting technology		
	this requires equipment		
	&Consumables		
	54.Continue with R&D in		
	dustless Chalk making from		
	Gypsum ore		
	55.Undertake R&D in Glass recycling Technology		
	56.Continue with R&D in Water		
	filtration		
	57.Continue with R&D in		
	concrete tiles and Pavers		
	58.Undertake R&D in		
	Production of mineral oxides		
	59.Undertake manufacturing of adhesives		
	adirestives		
	Fruits and Vegetables		
	department shall develop seven		
	new products		
	60.Development of chicken		
	feeds out of fruit waste		
	61.Development of jackfruit jam		
	62.Development of pomegranate juice		
	63.Development of sugar cane		
	05.Development of sugar cane		

ote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	jam and syrup		
	64.Development of a healthy		
	green tea drink		
	65.Development of a healthy		
	cocktail (pumpkin, lemon &		
	passion)		
	66.Development of pumpkin		
	powder		
	Bamboo		
	67.Development of Biochar		
	fertilizer now on market trail		
	especially National Forestry		
	Authority and Tea Growers.		
	The developed bamboo fertilizer		
	products shall be analyzed		
	monthly in different laboratories		
	for product refinement 68.Two Products (Bamboo		
	tooth Picks and Bamboo Mats)		
	to be developed up to		
	commercial stage		
	69.Toothpick and mat		
	production, packaging and		
	market testing, process and		
	product refinement shall be		
	undertaken. Bamboo, assorted		
	processing chemicals and		
	materials, packaging material to		
	be procured		
	70. There shall be installation of		
	Bamboo processing equipment,		
	test running and commissioning		
	of the Kabale Bamboo		
	Processing Unit		
	71. There is a requirement to		
	monitor & evaluate the Kabale		
	Bamboo Process Department		
	ICT		
	72.UIRI shall undertake		
	development of Mobile		
	application platforms and		
	testing mobile phones services		
	for instance equip of staff with		
	mobile apps development skills		
	and providing SMS Messaging		
	Development or equiping individuals with SMS software		
	development skills		
	development skins		
	Button Mushroom		
	73. To further the research on		
	Button Mushroom there is need		
	to procurement of the following		
	consumables, Millet grains,		
	Urea, Muriate of potash (MOP),		
	Supper phosphate, Insecticide		
	(Dimilin), Calcium carbonate,		

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	bags, Wheat bran, Calcium ammonium nitrate (CAN), Gypsum, Black polythene bags, Big saucepans (stainless steel), Bench wipers, Cloths wipers, Parafilm''M'' Roll, Bunsen burner + Small gas cylinder 74. Wheat grains, molasses, Plastic containers for sterilization of substrate in the bunkers, Tapline 30x30 m long, Bags of rice grains for spawn production Water spraying pipe with a pump, Water pumper from the drainage for recycling water at the composting yard		
Performance Indicators:			
No. of value added products developed for ndustralisation to reduce post harvest losses.	40	45	
No. of research projects nitiated	60	65	
No. of product analyses undertaken for quality checks	55	581	
Output Cost:			9 % Budget Spent: 86.4%
	ndustrial and technological Incu		
Description of Performance:	1.Expansion of Direct Access Distribution Strategy for Newcastle Vaccine. Following the successful completion of the novel pilot distribution mechanism in Eastern Uganda, The vaccine is to be launched nationwide. It will involve initially targeting distribution in 50 districts in the Northwest and Eastern parts of the country. In 2015-2016 the vaccine department intends to implement the lessons learnt in the pilot distribution area in eastern Uganda to launch KUKUSTAR, the vaccine against Newcastle disease, nationwide to be accessible to all poultry farmers. 2. There are currently 13 interested in Materials and Mineral Engineering Business incubation who shall be accessed aimed to create 30 jobs 3.Establishing one dairy incubation centre in Ntungamo 4.Monitoring and evaluation of virtual incubatees 5.Consumables for bamboo	acquired enough capital to set up their own processing units. Under the program there is research training and technology development, adaptation and transfer geared towards conducting applied industrial research and addressing the needs of industry in Uganda specifically the micro, small and medium scale enterprises (MSMEs) with the aim of generating appropriate processing technologies. Business Incubation also offers training opportunities to students from higher institutions of learning within the country. •Practical training programs in processing and production of	

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	plant to commercialize toothpick and mats production lines in Kabale and at UIRI 6.Support towards sustainability & improvement of virtual incubatees' production capacity 7. Take on four new incubatees under Production Systems i.e USSIA, IEN, Tropical Connections, IKN Holdings 8.2.Trained incubateesApproval of requisitions for training materials 9.3.New commercialised productsProcurement of training materials 10.4.Increased production capacity in the juice pilot plant 11.5.New job opportunitiesCommercialisation of new products for incubatees 12.Initiation and approval of a requisition for a batch pasteuriser 13.Procurement of a batch pasteuriser 14. 15.Installation of the batch pasteuriser 16.Imroved product qualityRefinement of existing products for incubatees i.e pineapple juice,pineapple jam,chillie sauce,mango cordial,mango juice,mango & orange cocktail,tropical cocktail,passion,orange juice 17.Provide technical support for refinement of existing incubatee products 18.undertake incubateemonitoring and evaluation of incubatees(both inhouse and virtual)	improvement •Advice on choice of processing equipment and machinery, plant layout and process design. •Establishment of quality assurance systems; e.g. GMP, GHP, HACCP, have been established to support the incubation and research programs •Guiding clients in writing techno-economic feasibility report and business plans for processing entrepreneurial	
Performance Indicators:			
No. of technologies deployed with incubatees	25	25	
No. of SME's incubates aken on	50	38	
Output Cost:			4 % Budget Spent: 94.2%
	Addition Centre Establishment of Model Value Addition Centers has proved to impact on poverty reduction. The Established Model Value Addition Centers stimulate increased farm production. The farmers' area assured of ready	During Q4 and FY 15/16 all UIRI facilities were well maintained with routine and preventative civil works done as per schedule.	N/A

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	market where they can generate some income. The centers assist on reduction of post-harvest losses as what is produced is processed. The Model Value addition centers are a skills and training hub for capacity building in farm production,		
	post-harvest handling, processing and creation of employment and hence poverty reduction		
	The following Model Value Addition Establishments are at different stages as detailed here below		
	1.Establish a functional Fruit juice and water processing facility in Kawempe by		
	modification of an existing processing facility 2.Development of new products for the centres and training of		
	production staff 3.Establish a Model industry to manufacture the polylactic acid and make bioplastics; and		
	cosmetics centre 1st, 2nd, 3rd and 4th Establish infrastructure for pilot plants and recruit personnel to manage the centres		
	4.Maziba Winery Project, Kabale Establishment of a complete functional processing winery		
	plant whose construction work included a sub structure, walling and roofing, sanitary facilities,		
	internal and external finishes, external works have been completed and handed over. Defects liability period		
	supervision is underway. 5.Establishment of a Model Diary Farm in Ntungamo The establishment of a model		
	farm entails constructing a Dairy shade, Feeding shade, Chaff Cutter shade, Milk collection area.		
	Site has been handed over to the Contractor for commencement of work.		
	6.Extra works at Essential Oils Pilot Project Luweero Construction of allowed variation for additional scope to		
	variation for additional scope to include office premises and wet		

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	areas is underway at 90% of		
	works complete.		
	7.Construction of a nursery shed		
	at Essential oils Luweero		
	Construction of a nursery shed at Luweero Essential Oils is		
	underway. Civil works		
	Construction were completed.		
	Welding works are pending		
	8. Proposed Fruit juice		
	processing plant in Itojjo		
	A functional fruit juice		
	processing plant whose works		
	include a substructure, walling		
	and roofing, internal and		
	external finishes is underway.		
	Construction is ongoing and the		
	substructure is complete		
	9.Proposed Cheese processing plant at Rubale Ntungamo		
	District		
	Works include to design for		
	construction of the Cheese		
	Processing Facility is underway.		
	Site reconnaissance, to assess		
	the nature of land, was done by		
	the UIRI technical team on 17th		
	Sep 2014. Bills of Quantities		
	have been prepared.		
	10.Proposed Soap processing		
	plant in Kabale Industrial Area		
	for Yildi enterprisesis		
	underway. Works to include		
	Design for construction of the facility is underway. Site		
	reconnaissance, to assess the		
	nature of land, was done by the		
	UIRI technical team on 17th		
	Sep 2014. Preliminary estimates		
	have been prepared.		
	11.Proposed rehabilitation of		
	Esia mixed farm, Adjumani		
	Rehabilitation of the facility and		
	activity scope to be discussed		
	with UIRI Management		
	12. Tile manufacturing facility in		
	Wakiso Designs and Bills of Quantities		
	have been prepared for		
	establishment of a		
	manufacturing facility for Tiles		
	in Wakiso		
	13.Proposed Peanut Processing		
	Plant in Soroti District		
	The design is complete and		
	preliminary estimates for a		
	complete functional Peanut		
	Paste Processing Plant in Soroti		
	District have been prepared. A		
	report has been submitted for		

Vote, Vote Function Key Output	Approved Budget an Planned outputs		umulative Expenditur nd Performance		atus and Reasons fo riation from Plans	r any
	approval.					
	14.Development of a Fabrication Lab for si	mall scale				
	manufacturing of circ					
	and casings for comp					
	prototypes. A Project					
	is currently being dev	-				
	start-up meeting was inviting interested sta					
	for the project.	Remoracis				
	15.Internal Painting of	f selected				
	Buildings at UIRI	1				
	Design and BOQ's ar implementation super					
	Internal painting of th					
	are meant to improve					
	sanitary conditions of					
	facilities to enable the					
	UNBS inspection star External painting is to					
	the aesthetics and gen					
	outlook of the UIRI c	ampus.				
	Painting of toilets at t					
	conference hall is con Painting in ceramics i					
	16.Proposed Chemist					
	Laboratory	-)				
	Refurbishment Model					
	A Model Chemistry la					
	to facilitate the resear activities currently be					
	undertaken is ongoing					
	Contractor was procu	-				
	Construction work sc	heduled to				
	begin in Q3. 17.Proposed Renovat	ion of				
	TDC Engineering wo					
	floor	rksnop				
	A hard wearing suitab	ole floor				
	surface for activities b					
	carried out on the wor required for reinforce					
	workshop floor surface					
	terrazzo.					
	Renovation works in					
	workshop floors com	menced				
erformance Indicators:	and are underway.					
o. of products up-scaled	3	5	37	,		
nd commercialized by the	J	-	37			
o. of model value addition	1		5			
ntres at 75% completition	1		3			
o. of local raw materials	4	.5	46	j		
eveloped and populated in the scientific databases						
Output Cost:	UShs Bn:	0.619	UShs Bn:	0.409 %	6 Budget Spent:	66.0%
	acility Repair and M	. • 4			_	

Description of Performance: Description of P
pipe and improve on the nine

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	18.Maintenance tools &		
	equipmentTo improve on work		
	efficiency and service delivery.		
	19.Maintenance worksTo		
	maintain better performance of		
	the utility 20.Professional capacity		
	development trainingTo		
	improve on skills and		
	knowledge for better		
	performance.		
	21.UIRI facilities shall require		
	fumigation services,		
	22.Cleaning Materials to		
	include fuel for mauler, toilet		
	paper, soap(liters), detergents,		
	toilet brushes, brooms,		
	contracting rubbish disposal, towels, tarpaulins		
	23. First Aid Boxes for the four		
	pilot plants		
	24.Microbiology and		
	Biotechnology Equipment		
	calibration		
	25.Equipment service and		
	preventative maintenance		
	26.Chemistry civil		
	worksRepairs & remodeling		
	27.General plant clean up and		
	maintenance of the Materials and Mineral Engineering		
	Division		
	28.Functional machinery and		
	equipment		
	29.Repair and maintenance of		
	machinery		
	30.Repair of Kilns, Extruder		
	and Ball mills of the Materials		
	and Minerals Engineering		
	Division		
	31.Well maintained pilot plant		
	and improvement of civil works 32.Renovation of PCB Facility		
	into a Fabrication Laboratory		
	Kampala and equipment		
	procurement. This shall require		
	renovation of PCB lab		
	Consultancy and procurement of	f	
	equipment		
	33. There shall be continued		
	maintenance (Repair,		
	replacement and servicing) of		
	electrical and electronic		
	appliances and Serviced		
	equipment and appliances by Instrumentation Division		
	34.Repair and creation of extra		
	data ports in the BDC requires		
	purchase of materials		
	necessary and gear		

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	35.Hire of external company to undertake maintenance of over 30 printers 36.Hire of external company to undertake maintenance of over 150 computer 37.Replace ICT consumables like printers toners, computer accessories, fax ribbon, computer mice, keyboards, UPS batteries whenever applicable		
Output Cost.			0 % Budget Spent: 91.5%
	ndustrial Skills Development and		NT/A
Description of Performance:	1.Provide skilled & practical internship training to students 2.Train skilled SMEs 3.Train Small cottage industries for fruits and vegetables processing created 4.Train SMEs in reduction of post-harvest losses 5.Hands on training for 6 people in bamboo processing skills, bamboo, processing chemicals, packaging material 6.Three Internships to be offered in Molecular Biology& Biotechnology and Microbial analysis 7.Train 200 in cosmetics formulation, biotechnology and microbial analysis in Culture media, chemicals and reagents 8.Training of production staff 9.Train skilled & practical internship students in food processing and quality management 10.Train skilled SMEs 11.Train different groups that are establishing small cottage industries in reduction of post-harvest loss handling 12.Certifications to be done in Networking, Programming, hardware maintenance for Internal staff capacity strengthening 13.Lira Peanut Research Processing Center shall train 150 farmers in Good Agricultural practices and Good post-harvest practices. This requires sensitization meetings and training materials UIRI shall provide Instrumentation skills development 14. Advanced Embedded	UIRI has become the preferred destination for Student Industrial Training and Capacity Building. The following are achievements under this activity. 1. The Food Laboratory conducted 102 training sessions conducted in key priority sectors: a. Ready-to-drink juice b. Fruit jam c. Wine d. Peanut butter e. Snacks f. Confectioneries g. Flours h. Sorghum porridge This churns out better skilled persons for improved community enterprise development 2.28 students from the Uganda Allied Institute of Health and Management — Mulago trained in microbiological skills 3.20 people acquired Hands-on skills training in cosmetics, soap, detergents & toiletry product formulation 4. Trained 5 new staff in ISO 17025 and Good Laboratory Practices 5. Trained 16 students of Food science and technology , chemistry from kyambogo , Bugema, Makerere, Ndejje university in Good laboratory practice 6. Trained 30 entrepreneurs from various groups of prospective SMEs and individuals on hands on training in Fruits and Vegetables Processing Technology. 7. Skills transfer to SMEs and	

Vote, Vote Function Key Output	Approved Budget and Planned outputs	Cumulative Expenditure and Performance	Status and Reasons for any Variation from Plans
	Systems and Advanced applied	schools in Handmade Paper	
	electronics	Production being part of	
	15.Hardware Description	Agricultural Innovations to	
	Language, Applied	addressing rural challenges;	
	Instrumentation and Control Engineering	Linking research to inclusive development for food security.	
	16.Computer Applications and	UIRI was awarded a Certificate	
	databases for embedded	for Skills transfer in managing	
	systems, Double sided PCB	and facilitation of SMEs	
	design and processing and	involved in agribusiness rural	
	surface mount technologies	innovations	
	17.Real Time Operating	8.45 Youth were trained in	
	Systems (RTOS) and Project	production of charcoal	
	and System Engineering Management	briquettes from agricultural fiber waste, aimed at	
	18.Provide training to 5 people	empowering Youth and Women	
	in special skills relevant their	in Kamengo; Mpingi district	
	Materials and Minerals	where 30 Youth and 25 Women	
	Engineering skills gaps paradox		
	Chemistry laboratory	9.Dr. Louise Sserunjogi on	
	19.Train 100 students in Good Laboratory Practice (GLP) and	behalf of RECO Industries Ltd	
	chemical analysis. Makerere	was trained in production of High-Nutrient Cookies using	
	University, Kyambogo	extruded Corn-Soya Blend	
	University, Mulago Paramedics,	(CSB) as one of the major	
	Uganda Petroleum Institute	ingredients	
	Kigumba (UPIK)	10.Technical support was	
	ICT	provided to University Students	
	20.Provide professional	undertaking their final year	
	workshops & conduct seminars regarding the legal, Taxation &	research as well as those on undertaking industrial training.	
	marketing aspects of a business,	This strengthens relations with	
	understanding national policy	institutions from which the	
	on industry and trade in the East	students are studying and	
	African Community	Improves quality of student	
	21.Provide enrolled incubates	research	
	training on how to start, manage		
	a business and incorporate ICT for business efficiency (both on		
	site and outreach programs)	undertook industrial training in	
		various areas like	
	records keeping & management,	instrumentation, energy systems,	
	use of ICT tools & corporate	microbiology, chemistry, food	
	image, Business Skills &	technology attaining hands on	
		experience	
	development coaching with emphasis on records	12.16 people from Uganda Small Scale Industries	
	management, Corporate image	Association (USSIA) were	
	improvement and the use of ICT	· · · · · · · · · · · · · · · · · · ·	
	tools for efficiency and	mandazi, cookies, queen &	
	profitability	ceremonial cakes	
	23.A minimum of 2 and	13.2 tertiary students	
	Maximum of 4 linkages	undertaking researchwere	
	established coordination of	assisted with analytical services	
	round table meeting with financial institutions,		
	initialization of collaboration	Staff training	
	with international and local	Staff capacity has been	
	business development centers	improved mainly through	
	24.Participate in BDC strategic	specialized professional	
			'

te, Vote Function Approved Budget and Planned outputs				
	as well as participational, regional and nal conferences, as and other related ney include: ional Conference on a modeling in food that from 8-12 September io de Janeiro, Brazil. The attended by the Conference and the from 28th – 30th arr, 2015 at the Kenyatt nal Convention Central Nairobi, Kenya. The attended by Ms. yonyintono. In the conference is attended by Ms. yonyintono. In the conference is attended by Ms. In the training was by Ms. Joanita Ilega undertook in Material Science in Material Science in	t a e e		

QUARTER 4: Highlights of Vote Performance

Vote, Vote Function Key Output	Approved Budget Planned outputs	and	Cumulative Expen		Status and Reasons fo Variation from Plans	or any
			yoghurt processing technologies, include quality dairy ingred Hansen is one of the manufactures dairy cultures in the work	ient. Chris e leading starter		
Performance Indicators:						
No. of apprenticeships taken on		80		82		
No. of SMEs trained in industrial development and value addition processing		1,000		1670		
Output Cost	: UShs Bn:	0.150	UShs Bn:	0.060	% Budget Spent:	40.0%
Vote Function Cost	UShs Bn:	14.340	UShs Bn:	13.143	% Budget Spent:	91.6%
Cost of Vote Services:	UShs Bn:	14.340	UShs Bn:	13.143	% Budget Spent:	91.6%

^{*} Excluding Taxes and Arrears

Research and Development

UIRI provides product and industrial process development services through testing and microbiological and chemical quality assurance; provision of analytical services, since microbiological quality is a critical determinant of competitiveness of manufactured products. As a modern research centre we facilitate utilization of biological and biochemical systems for transformation of natural resources for economic benefits.

- 1.UIRI continues to provide analytical services in chemical composition and microbial tests
- 2. The Chemistry Laboratory attained certification and recognition by Uganda National Bureau of Standards, UNBS
- 3.Put up all the required laboratory documentations for implementation of ISO 17025 (Accreditation)
- 4.AgriLASA membership Subscription for this year 2015 and 2016 was paid
- 5. The Chemistry Laboratory participated in analysis of the PTS samples submitted as required by ISO 17025 standard for testing Laboratory
- 6. The Food Laboratory provided Technical and Advisory Services to a multitude of entrepreneurs involved in processing and handling of food. Services cover the entire value chain from ideation through to commercialization and on improved products. This enables increased survival of businesses and increases the number of food products that comply with National Standards.
- 7.The Microbiology Laboratory participated in the NQCSSES Round 001/16 Proficiency Test which is coordinated by the Botswana Bureau of Standards
- 8.Innovative Product Development in a range of new products:
- a.Non-dairy frozen dessert (Popsicle/Frozen Juice bar)
- b.Tamarind Juice
- c.Ready-to-use condiments marinades, dressings, sauces
- d.Sorghum wine
- e.Canned maize-bean mix (empengyere)
- f.Nutraceuticals Hibiscus juice, Hibiscus Powder, Chia seeds, Aloe Vera Juice, Mushroom powder and mushroom enriched flour (Prototypes of the mentioned products)
- 9.Standardized processes for manufacture of the mentioned products
- 10.Handmade paper production from Banana, Pineapple fiber, Cotton and waste paper for production of Biodegradable products.
- 11. Charcoal briquettes from local materials Empowerment of Youth in Rukiga; Kabale.
- 12. Participated in Institutional Collaborative Initiatives and undertook a number of initiatives in collaboration with other players:
- i.Participated in a project dubbed "Promotion of Traditional Grains as the "Super foods" of East Africa. This was in collaboration with African Center for Economic Transformation (ACET), Pardee Rand Graduate School,

QUARTER 4: Highlights of Vote Performance

U.S Global Development Lab, Africa Innovations Institute, Resilient Africa Network, Makerere University and Saladin Media.

ii. Jointly developed a proposal "Extraction of Proteins and Starch from Underutilized Indigenous Legumes for Application in Food and Food Packaging Systems" with Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), Germany for funding by the German Ministry for Education and Research (BMBF).

iii.Institute popularized among collaborators. Co-operate ties established for future partnerships and collaborations

iv. Broadened horizons through contact with world-renown RTOs

Under Instrumentation

13. Venturewell Sustainable Grant (US\$33,000) with Columbia University, Department of Biomedical Engineering, Fu Foundation School of Engineering and Applied Science (02/2015)

14.Oral Presentation at the World Congress on Biomedical Engineering and Medical Physics 2015, Toronto, Canada – 'Appropriate Medical Devices for Low Resource Settings: Electronically Controlled Gravity Feed Intravenous Infusion Set' (06/2016)

15. Finalists, Saving Lives at Birth: Grand Challenge for Development, invited for Development Exchange in Washington, DC (Top 6% out of 750 applicants) for the MUTIMA: Low cost diagnostic tool for Pneumonia (07/2015)

16.Poster presentation at World Food System Conference 2015, Ascona, Switzerland- Smart Grain Silo (06/2015)

17.Invitation to join Global Pneumonia Innovations Team (07/2015)

18.Oral Presentation and publication in the Digital Xplore Online Journal at the 2015 IEEE AFRICON Conference in Addis Ababa, Ethiopia- Low Cost Electronically Controlled Gravity Feed Infusion Set (10/2015) 19.1st Place Innovation Award (US\$50,000) at the World Summit on Patient Safety, Science and Technology, Dana Point, California, USA (01/2016)- ECGF Infusion Set Project

20. Oral Presentation at the 2015 Canadian Medical and Biomedical Engineering Conference, Calgary, Alberta – 'Medical Device Electronics Development in Low Resource Settings: A Ugandan Perspective' (05/2016)

Essential Oil Pilot Project

- 21.At the Essential Oil Pilot Plant 300 seedlings of Rose geranium were transplanted. 3,957 seedlings of Lemon balm which were still surviving in the nursery out of the trays propagated in January 2016.
- 22. The transplanted seedlings were used to backfill one plot of Rose geranium near the nursery and three plots of Lemon balm near the water tank.
- 23.More trays of Rose geranium and Lemon balm during have been propagated Season B(Apr Jul) of 2016 in order to achieve the required 6000 plants of Rose geranium &12000 plants of Lemon balm for sufficiently expanding mother block at UIRI's Essential Oil Pilot Station.
- 24.In May the Project Team has finalized plans to introduce some local aromatic plants like Lemon grass and Rosemary whose oil extract is already on demand in the domestic market.
- 25.2 pilot plots of Lemon grass were established at the Essential Oil Pilot Station. One plot of Lemon grass has a plant population of 532 and the second plot has 649.
- 26.1400 cuttings (7 nursery trays) of Rose geranium and 7 trays of Rosemary (4 trays of Rosemary exotic and 3 trays of Rosemary local) were propagated and will be ready for transplanting in August 2016 (Season C).

Rosemary was propagated earlier in the month of May 2016 and it has already started developing roots. On the other hand, Rose geranium was propagated in the last week of May 2016.

- 27.Liquid manure was prepared and applied it on all existing plants in the pilot plots to boast their vegetative growth in current rains.
- 28.Raised 780 nursery seedlings of Rose geranium out of the 7 trays propagated in May 2016, at a success rate of 55.71%.
- 29.3 more trays of Rose geranium (600 cuttings) were propagated which are now 4 weeks old to avail us with more seedlings for expanding the mother garden.
- 30. The project team has also managed to raise 612 seedlings of Rosemary-local out of the 3.5 trays propagated

QUARTER 4: Highlights of Vote Performance

in May 2016 and 366 seedlings of Rosemary-exotic out of the 5 trays propagated, a success rate of 83.8% for Rosemary-local and 36.6% for Rosemary-exotic.

- 1)Hardening the seedlings in nursery mid-July 2016 so that they are ready for transplanting at on-set of rains in August 2016 (Season C).
- 2)Lemon grass and Rosemary have been introduced at the Field Station rains since those oils are being sought after in the local market

Minerals and Materials Engineering Division

- 1)Designed and customized Model and Mold making for fragrance candle. The activities include Designing, Lathe machine works, Model curving and finishing, Mold assembling
- 2)Produced ceramic buttons and beads. The activities include: Raw material preparation, Formulation, Pressing and casting, Firing and Glazing,
- 3)Potter's Wheel throwingOutside Flower Pots involved, Preparing of the clay material, throwing of the bodies, finishing and firing
- 4)Produced and installed Artificial Ceramic Coral reefs to boost fish breeding in water bodies. Completed prototypes that were made to better dimensions
- 5)Compiled and submitted the final Project Proposal of the Gemstone cutting as a possible project to be implemented in Karamoja region, whose Pilot studies were successfully completed, under Stone Cutting Technology
- 6)Production of School chalk.Dustless chalk. This included raw material preparation, formulation, Production 7)Under mineral processing, Clay samples from Kalangala Women group were prepared, milled and screened to attain the right particle sizes
- 8)Raw Material testing, Soil and Rock samples from Moriemu in Abim District, Lupa in Moroto District, Kirembe in Kasese District. This included material sorting, milling, characterization, gold testing 9)Ceramic Water filters for domestic drinking water filters were produced. This involved Raw material preparation, Formulation, Pressing ceramic filter containers, Firing, Testing the filter for performance

Industrial and Technological Incubation

The Business Incubation Program was set up to provide Business Incubation services for entrepreneurs who have not yet acquired enough capital to set up their own processing units.

Under the program there is research training and technology development, adaptation and transfer geared towards conducting applied industrial research and addressing the needs of industry in Uganda specifically the micro, small and medium scale enterprises (MSMEs) with the aim of generating appropriate processing technologies. Business Incubation also offers training opportunities to students from higher institutions of learning within the country.

- •Practical training programs in processing and production of products ,quality control and quality assurance is availed
- •Technological problem solving :-e.g. quality up-gradation, value addition, new product and process development, product improvement
- •Advice on choice of processing equipment and machinery, plant layout and process design.
- •Establishment of quality assurance systems; e.g. GMP, GHP, HACCP, have been established to support the incubation and research programs
- •Guiding clients in writing techno-economic feasibility report and business plans for processing entrepreneurial projects
- •Processing new products during trial phase for private companies.

During Q4 the following achievements were made under the Business and Technological Incubation Program 1.Quality evaluation, standardization and commercialization of Slice Mango Juice. Products were analyzed for microbial and chemical composition. (There is continuous improvement of the quality and commercialization of Slice Mango Juice)

2. Upscaling production of Zena Ready to Drink Juices. Production has been up scaled from 100 liters to 300 liters

QUARTER 4: Highlights of Vote Performance

per day

- 3.Two incubatees were take on in the Fruits and Vegetable incubation program
- 4.Expansion of the Fresh Milk Cold Room The fresh milk cold room was expanded to accommodate the increased production volume of pasteurized milk and yoghurt. A new building was constructed attached to the old cold room and equipped with cold room facilities by Batidan Consulting Engineers. It has been commissioned and is now being used for cold storage of the above products by M/s Premier Dairies ltd
- 5.Karubuga Dairy Farm was supplied with Dairy Processing Equipment by M/s Engineering Solution Ltd. The equipment was delivered to the project site. Installation, training and commissioning will commence in the next financial year.
- 6.Under Dairy Technology there are 7 incubatees
- •Premier Dairies Ltd, processing a monthly average of 186,673 liters of Pasteurized milk and 12,300 ltrs of Yoghurt and employing 30 people.
- •Z-plus Ltd producing a monthly average of 3,800 liters of Yoghurt and employing 6 people
- •Grace K Magumba producing a monthly average of 2,400 liters of Yoghurt and employing 4 people
- •Nutrition Food producing a monthly average of 900 liters of Yoghurt and employing 3 people
- •Mabira Estates C&DGproducing a monthly average of 900 liters of Yoghurt and employing 3 people
- •Model Professional Consult producing a monthly average of 2,300 liters of Yoghurt and employing 4 people
- •Klabeihura Farmers (Virtual) producing a monthly average of 6,000 liters of Yoghurt and employing 6 people i.The two incubation farms M/S Adeke Farm and M/S Millionaire Gals Farm have not yet been fully established as there is still infrastructure gaps to be put in place
- 7. The Vaccine Production Unit finalized formulation trials to improve vaccine yield by an additional 50%. As a result installed capacity at the facility has increased from 185 million vaccinations to 245 million vaccinations without a need for increase in manpower, equipment or man-hours.
- 8. Continued distribution of Newcastle Vaccine in the Ugandamainly eastern and central Uganda. Total Sales during Quarter 4 were 3,011,000 doses. Of which 887,500 can be accurately traced to smallholder farmers in a total of 9,543 households.
- 9.Under bakery technology there are
- •VASH-KAN Investments Ltd formerly known as Unmatched Enterprises produced cookies, cakes i.e. ceremonial, queen and banana cakes
- •Trade Masters (U) Ltd produced sweet and brown bread, sweet buns and a variety of cakes (queen, madeira, and lemon)

Table V2.2: Implementing Actions to Improve Vote Performance

Planned Actions:	Actual Actions:	Reasons for Variation
Vote: 110 Uganda Industrial Research Ins	stitute	
Vote Function: 0651 Industrial Research		
	UIRI has made a deliberate procedure to embed standards in all products under formation and development. This has consequently resulted into ease of certification of MOST products developed at UIRI and in effect meeting the required quality standards to compete with regional products	N/A
	The business Incubation projects and Model Processing Facilities are still operating within the limited ceiling of MTED. Accelerated growth of operations can only be achieved if an Innovation and Industrialization fund is effected.	A Proposal for establishment and implementation of an Industrial and Innovation Fund originated by UIRI was submitted and has still not been put in place.
Vote: 110 Uganda Industrial Research Ins	stitute	
Vote Function: 0651 Industrial Research		

QUARTER 4: Highlights of Vote Performance

Planned Actions:	Actual Actions:	Reasons for Variation
	UIRI has set up an awareness campaign.	1.Inadequate budget allocation under
	By designating every Tuesday to visitors	MTEF
	ranging from schools, to entrepreneurs,	2.Deficit between allocated and actual
	politicians, government officials to	released budget funds
	guided tours of the Institute to help	3.Expensive financing from financial
	them understand the mandate and	institutions to undertake R&D projects
	activities undertaken by the institute	4.Low technical skills
	and how the institute can quickly assist	5.Lack of funds to support
	interested persons in adaptation and	commercialization of innovations,
	commercialization of the proved	technologies and products
	research results	(Industrialization and Innovation Fund)
		6.Inadequate remuneration for retention of
		highly skilled scientists and engineers
		7. Absence of critical technical skills
		8. Weak inter-institutional cohesion and cooperation
		9.Limited levels of entrepreneurial competences in our society
		10.Decrepit infrastructure and limited connectivity
		11.Governmental and societal
		ambivalence with regard to R&D

V3: Details of Releases and Expenditure

This section provides a comprehensive summary of the outputs delivered by the Vote and further details of Vote expenditures by Vote Function and Expenditure Item.

Table V3.1: GoU Releases and Expenditure by Output*

Billion Uganda Shillings	Approved Budget	Released	Spent	% GoU Budget Released	% GoU Budget Spent	% GoU Releases Spent
VF:0651 Industrial Research	14.24	13.23	13.14	92.9%	92.3%	99.3%
Class: Outputs Provided	11.45	10.46	10.44	91.3%	91.2%	99.9%
065101 Administation	5.92	5.67	5.67	95.8%	95.8%	100.0%
065102 Research and Development	1.86	1.61	1.61	86.4%	86.4%	100.0%
065103 Industrial Incubation	1.70	1.61	1.60	94.9%	94.2%	99.3%
065104 Maintenance - Civil works	0.62	0.41	0.41	66.0%	66.0%	100.0%
065105 Maintenance - Machinery and Equipment	0.60	0.55	0.55	91.6%	91.5%	99.9%
065106 Student Industrial Training and Capacity Building	0.15	0.06	0.06	40.0%	40.0%	100.0%
065107 Technology, Innovation, Transfer and Development	0.54	0.54	0.54	100.0%	100.0%	100.0%
065108 Popularization of research and technologies	0.06	0.00	0.00	0.0%	0.0%	N/A
Class: Capital Purchases	2.79	2.77	2.70	99.4%	96.7%	<i>97.3%</i>
065172 Government Buildings and Administrative Infrastructure	0.98	0.96	0.96	98.2%	98.2%	100.0%
065176 Purchase of Office and ICT Equipment, including Software	0.10	0.10	0.10	100.0%	99.9%	99.9%
065177 Purchase of Specialised Machinery & Equipment	1.71	1.71	1.63	100.0%	95.7%	95.7%
Total For Vote	14.24	13.23	13.14	92.9%	92.3%	99.3%

^{*} Excluding Taxes and Arrears

Table V3.2: 2015/16 GoU Expenditure by Item

Billion Uganda Shillings	Approved Budget	Releases	Expend- iture	% Budged Released	% Budget Spent	%Releases Spent
Output Class: Outputs Provided	11.45	10.46	10.44	91.3%	91.2%	99.9%
211102 Contract Staff Salaries (Incl. Casuals, Temporary)	4.38	4.38	4.38	100.0%	100.0%	100.0%
211103 Allowances	0.10	0.10	0.10	100.0%	100.0%	100.0%
212101 Social Security Contributions	0.53	0.49	0.49	92.1%	92.0%	100.0%
213001 Medical expenses (To employees)	0.20	0.20	0.20	100.0%	100.0%	100.0%
213004 Gratuity Expenses	0.91	0.91	0.91	100.0%	100.0%	100.0%
221001 Advertising and Public Relations	0.03	0.03	0.03	100.0%	100.0%	100.0%

QUARTER 4: Highlights of Vote Performance

Billion Uganda Shillings	Approved	Releases	Expend-	% Budged	% Budget	%Releases
	Budget	_	iture	Released	Spent	Spent
221003 Staff Training	0.16	0.13	0.13	85.8%	85.6%	99.8%
221004 Recruitment Expenses	0.01	0.00	0.00	0.0%	0.0%	N/A
221007 Books, Periodicals & Newspapers	0.01	0.00	0.00	26.4%	26.2%	99.2%
221009 Welfare and Entertainment	0.08	0.08	0.08	100.0%	100.0%	100.0%
221011 Printing, Stationery, Photocopying and Binding	0.07	0.01	0.01	19.5%	19.5%	100.0%
221012 Small Office Equipment	0.03	0.02	0.02	78.2%	78.2%	100.0%
221017 Subscriptions	0.01	0.01	0.01	100.0%	99.4%	99.4%
222001 Telecommunications	0.07	0.07	0.07	100.0%	100.0%	100.0%
222002 Postage and Courier	0.00	0.00	0.00	5.1%	5.1%	100.0%
222003 Information and communications technology (ICT)	0.04	0.04	0.04	100.0%	100.0%	100.0%
223001 Property Expenses	0.12	0.12	0.12	96.0%	96.0%	100.0%
223002 Rates	0.05	0.04	0.04	74.4%	74.4%	100.0%
223004 Guard and Security services	0.16	0.15	0.15	96.8%	96.8%	100.0%
223005 Electricity	0.54	0.45	0.45	83.1%	83.1%	100.0%
223006 Water	0.13	0.13	0.13	100.0%	100.0%	100.0%
223007 Other Utilities- (fuel, gas, firewood, charcoal)	0.15	0.03	0.03	18.4%	18.4%	99.7%
224001 Medical and Agricultural supplies	0.47	0.29	0.29	61.1%	61.1%	100.0%
224004 Cleaning and Sanitation	0.19	0.16	0.15	82.5%	82.3%	99.8%
224005 Uniforms, Beddings and Protective Gear	0.10	0.04	0.04	44.5%	44.5%	100.0%
224006 Agricultural Supplies	0.81	0.64	0.63	78.2%	76.9%	98.3%
226001 Insurances	0.04	0.02	0.02	45.7%	45.4%	99.3%
227001 Travel inland	0.03	0.03	0.03	100.0%	100.0%	100.0%
227002 Travel abroad	0.19	0.17	0.17	89.3%	89.3%	100.0%
227003 Carriage, Haulage, Freight and transport hire	0.01	0.01	0.01	100.0%	100.0%	100.0%
227004 Fuel, Lubricants and Oils	0.26	0.20	0.20	75.3%	75.3%	100.0%
228001 Maintenance - Civil	0.05	0.05	0.05	100.0%	100.0%	100.0%
228002 Maintenance - Vehicles	0.27	0.20	0.20	75.5%	75.5%	100.0%
228003 Maintenance – Machinery, Equipment & Furniture	1.25	1.25	1.25	100.0%	100.0%	100.0%
Output Class: Capital Purchases	2.79	2.77	2.70	99.4%	96.7%	97.3%
312101 Non-Residential Buildings	0.98	0.96	0.96	98.2%	98.2%	100.0%
312202 Machinery and Equipment	1.81	1.81	1.74	100.0%	95.9%	95.9%
Grand Total:	14.24	13.23	13.14	92.9%	92.3%	99.3%
Total Excluding Taxes and Arrears:	14.24	13.23	13.14	92.9%	92.3%	99.3%

Table V3.3: GoU Releases and Expenditure by Project and Programme*

Billion Uganda Shillings	Approved	Released	Spent	%GoU	%~GoU	%~GoU
	Budget			Budget	Budget	Releases
				Released	Spent	Spent
VF:0651 Industrial Research	14.24	13.23	13.14	92.9%	92.3%	99.3%
Recurrent Programmes						
01 Headquarters	5.92	5.67	5.67	95.8%	95.8%	100.0%
Development Projects						
0430 Uganda Industrial Research Institute	8.32	7.56	7.47	90.8%	89.8%	98.9%
Total For Vote	14.24	13.23	13.14	92.9%	92.3%	99.3%

^{*} Excluding Taxes and Arrears

Table V3.4: Donor Releases and Expenditure by Project and Programme*