



**Infrastructure
Transparency
Initiative**

Uganda

2nd ASSURANCE PROCESS

**PROJECT: THE SUPPORT TO HIGHER EDUCATION,
SCIENCE AND TECHNOLOGY (HEST) UNDER
THE MINISTRY OF EDUCATION AND SPORTS**

NOVEMBER 2018

EXECUTIVE SUMMARY

CoST is a Multi-Stakeholder Working Infrastructure Transparency Initiative, aimed at improving citizen's lives through encouraging disclosure, validation and interpretation of infrastructure data, to enhance transparency and accountability in public infrastructure projects. The initiative seeks to promote transparency and accountability through disclosure of several data points that make up the CoST Infrastructure Data standard (IDS), throughout the project cycle from initial identification to completion. In that regard, CoST is based on four key processes: i) Disclosure, ii) Assurance, iii) Social Accountability and iv) Multi-Stakeholder Working which enable full and accurate disclosure of information which is then presented in a form easy to understand by most people.

This Assurance report is prepared as part of the second Assurance process. Specifically, on the Support to Higher Education, Science and Technology (HEST) Project under the Ministry of Education and Sports (MoES). The HEST Project is an initiative by the Government of Uganda through the MoES supported by the Africa Development Fund (ADF) that aims to contribute to building Uganda's human capital skills development capacity in education, science and technology to respond to labour market demands and spur productivity nationally. This is aligned to the country's National Development Plan 2010/2011–2014/2015 that aims at making Uganda an industrialized economy in 2025 through the provision of higher level skills.

The strategic objectives of HEST include, improving and expanding HEST in six public universities and two degree-awarding tertiary institutions, building capacity in public HEST institutions, improving quality and relevance of HEST in public institutions, and project coordination. HEST is financed with a loan from the Africa Development Bank amounting to UA 67,000,000 which is equivalent to USD 94,470,000 excluding local taxes. The overall cost estimate of the project is UA 74,440,000, and will be implemented over a five-year period from 2013 to 2018.

The second Assurance Process was informed and guided by the ToR and CoST Uganda Disclosure and Assurance Manual. This process involved retrieving, verification, analysis and presentation of project information disclosed by MoES both pro-actively and reactively on the civil works component of the HEST project in three (3) of the six (6) beneficiary Universities which include, Makerere University, Kyambogo University, Busitema University, Gulu University, Muni University, Makerere University Business school, Mbarara University of science and Technology (MUST) and Uganda Management Institute (UMI), using tools such as the CoST IDS, checklists and interview guides. The three focus universities included, Makerere University, Busitema University and Mbarara University. This process indeed exploited the technical knowledge, experience and engineering judgment of the Assurance Professional and CoST Assurance International Experts to analyse disclosed data in depth and highlight specific points of interest and best practice on the project.

Information disclosure was based on two levels of CoST Infrastructure Data standard, that is, proactive and reactive disclosure. The level of disclosure for data points under pro-active disclosure was 45%, while reactive disclosure was at 81.48%. The overall level of disclosure for the Procurement Entity (PE) on the project was 59.7% as at 26th July, 2018.

The project environmental management strategy included adequate water and sanitation, waste handling and greening of critical learning systems. The project is classified as category II because there are no major environment effects that were found to be caused by the expansion of the tertiary institutions and construction of new institutions. Expected positive impacts among others included, decongestion of

training facilities, improvement of sanitation facilities and gender parity, whereas, negative impacts expected included slight pollution, dust emissions, noise during construction and de-vegetation.

Procurement for works and services relating to the beneficiary universities was conducted by the Ministry of Education and Sports (MoES) as the Procuring Entity (PE). Procurement for works was carried out using the African Development Bank's Standard Bidding documents while services were procured in accordance with the Bank's Rules and procedures for the use of Consultants, with any local amendments approved. Works Contracts were awarded to EXCEL Construction Limited (Uganda) for civil works at Makerere University, PRISMA Limited (Uganda) for Civil works at Busitema University, and EXCEL Construction Limited and HAPPINESS Enterprises for Civil works at Mbarara University of Science and Technology (MUST). Services Contracts for design review, design and supervision of civil works were awarded to ARCH Design Limited (Uganda) for Makerere University, and HABITAT Consultants for MUST and Busitema University. The companies are registered in Uganda and predominantly owned by Ugandans, which is in line with the 30% local content requirement by PPDA.

Works at Makerere University (Mak) commenced in February 2016, Busitema in February 2016 while at MUST in May 2016. Works at MUST have been completed and handed over, while Busitema University (BU) had attained 97% completion and Makerere University 92% as of July 2018. There have been project delays in the projects due to additional works and variations to scope. The supervising consultants prepare and issue quarterly progress reports commenting on the program, cost, scope and quality of the respective projects. As of June 2018, Makerere University had a cost overrun of USD 289,290.58 brought about by additional works and variations, whereas the gross valuation of MUST and BU show no cost overruns on their respective projects.

The works on the facilities visited were generally executed under close supervision of the Funder and the PE. The works were carried out to a good construction standard. This was ensured by engaging experienced Contractors and Consultants on the respective projects. There is however, still need for strict monitoring of Contractors' Health and Safety arrangements for protection of the workforce and visitors to the sites from harm especially for the projects that are still ongoing.

MoES should adopt the CoST IDS as standard for disclosure in addition to instituting a disclosure platform on the website which will improve the level of pro-active disclosure.

Some of the beneficiary institutions have well equipped workshops for example the metal fabrication workshop at Busitema University. Therefore, some of the project items should have been fabricated in these workshops to give opportunity for hands-on training of the students.

ABBREVIATIONS AND ACRONYMS

ADF	Africa Development Fund
ADB	Africa Development Bank
CG	Central Government
CISCOT	Civil Society Coalition on Transport Sector
CoST	Construction sector Transparency
ESC	Education Service Commission
FDI	Foreign Direct Investments
GoU	Government of Uganda
HEST	Higher Education, Science and Technology
ICT	Information Communication Technology
IDS	Infrastructure Data Standard
MoES	Ministry of Education and Sports
MoFPED	Ministry of Finance, Planning, and Economic Development
MSG	Multi-Stakeholder Group
MUST	Mbarara University of Science and Technology
NBRB	National Building Review Board
NCIP	National Construction Industry Policy
NDP II	National Development Plan II
PDU	Procurement and Disposal Unit
PE	Procurement Entity
PPDA	Public Procurement and Disposal of Assets Authority
STI	Science, Technology and Innovation
TI	Tertiary Institutions
TOR	Terms of Reference
UBOS	Uganda Bureau of Statistics

UIPE Uganda Institution of Professional Engineers

UMI Uganda Management Institute

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1.0 INTRODUCTION

1.1 Background

CoST is a Multi-Stakeholder Working Infrastructure Transparency Initiative, aimed at improving citizen's lives through encouraging disclosure, validation and interpretation of infrastructure data, to enhance transparency through exercising the right to information, participation in decision making, and accountability which calls for enhanced value for money in public infrastructure projects. The initiative seeks to promote transparency through disclosure of several data points that make up the CoST Infrastructure Data standard (IDS), throughout the project cycle from initial identification to completion.

CoST works with governments, the private sector, civil society organizations and local communities around the world to get better value for money in public infrastructure investments. The initiative supports procurement entities to improve efficiency and reduces mismanagement, corruption, and risks posed to the public from poor construction in the understanding that, transparency through information disclosure, will lead to better accountability from public officials, which eventually, will result in more efficient, effective and quality construction.

In that regard, CoST is based on four key processes: i) Disclosure, ii) Assurance, iii) Social Accountability and iv) Multi-Stakeholder Working which enable full and accurate disclosure of information which is then presented in a form easy to understand. CoST is not a sanctioning body or an initiative that seeks to draw procurement entities (PE) for what they do, but rather to help to divulge what is not in the public domain, have it put to public knowledge, and enhance the quality of what is published. In this sense CoST complements and does not replace the functions of supervision, audit, regulatory, judicial or investigatory in each country.

Uganda is one of the countries that embraced CoST. Today, CoST Uganda has successfully carried out one Assurance Process on selected infrastructure projects from the Uganda National Roads Authority (UNRA), Wakiso District Local Government and Kampala Capital City Authority (KCCA) and disseminated collected information to different Stakeholders. Information, feedback and concerns from the 1st Assurance Report have informed approval of designs, citizen engagement, increased supervision/recruitment of consultants, enhanced disclosure of information and contract performance in the three PEs. Through continuous engagements with different entities, new entities including the Ministry of Education and Sports (MoES), have come on board and formally committed to work with CoST through the 2nd Assurance Process.

This report is prepared as part of the second assurance process. Specifically, on the Support to Higher Education, Science and Technology (HEST) Project under the Ministry of Education and Sports. It presents key findings of the Assurance Process in relation to the CoST Infrastructure Data Standard (IDS), conclusions, and recommendations in form of opportunities.

1.2 HEST Project Description

1.2.1 The HEST Project

The HEST Project is an initiative by the Government of Uganda through the Ministry of Education and supported by the Africa Development Fund (ADF) that aims to contribute to building Uganda's human capital skills development capacity. It involves the active participation of public universities and degree-awarding tertiary institutions in skills training, at the various levels of higher learning. The project is aligned to the country's National Development Plan 2010/2011–2014/2015 that aims at making Uganda an industrialized economy in 2025 through the provision of higher level skills. The total cost of the project is UA 74.44 million, and it will be implemented over a five-year period

1.2.2 Purpose of the HEST Project

To contribute to building Uganda's human capital skills development capacity, particularly, in education, science and technology to respond to labour market demands and spur productivity nationally.

The target strategic outcomes of the project include,

- Improvement of equitable access, quality and relevance of skills training and research leading to job creation and self-employment.
- Access to HEST and Information and Communication Technology (ICT) for delivery of HEST, and improved quality and relevance of HEST in beneficiary public universities and degree-awarding tertiary institutions, leading to stronger links to the productive sector.

1.2.3 Objectives of the HEST Project

Objectives of the project include,

- i. Improving and expanding HEST in six public universities and two degree-awarding tertiary institutions (UA 60.82 million)
- ii. Building capacity in public HEST institutions (UA 6.50 million)
- iii. Improving quality and relevance of HEST in public institutions (UA 5.15 million)
- iv. Project coordination (UA 1.97 million)

1.2.4 Scope of the HEST Project

Component I: Improving and expanding HEST in six public universities (Makerere University, Mbarara University of Science and Technology, Kyambogo University, Gulu University, Busitema University, Muni University) and two degree-awarding tertiary institutions (Makerere University Business School and Uganda Management Institute), accounting for UA 60.82 million of the total loan amount. This entailed,

- (i) Infrastructure construction (lecture rooms, technology workshops, ICT labs, libraries with virtual capabilities, external civil works and utilities expansion)
- (ii) Equipment procurement, installation and operation and maintenance training including for laboratory technology, agriculture mechanization and learning equipment
- (iii) ICT infrastructure, equipment, e-learning programs for the TIs, software and training

Component II: Building capacity in public HEST institutions accounting UA 6.50 million of the total loan amount. This entailed;

- (i) Academic staff trained at the masters and PhD level, management staff training and retraining at least 40% being women those with special needs
- (ii) Scholarships offered for 95–160 gifted poor students to study STI in the TIs
- (iii) NCHE capacity improvement in university enrolment data and quality assurance management and tracer studies preparation

Component III: Improving quality and relevance of HEST in public institutions, accounting for UA 5.15 million of the total loan amount. This will entail,

- (i) Review of Higher Education Strategic Plan (HESP) and two evaluation research studies
- (ii) Business incubator centres established in TIs, and networks set up with support of PSFU
- (iii) Research network established with CIAT and other institutions and 10 research publications completed
- (iv) Practical training of students in industry through
- (v) Initiatives for linking major STI programs with the labour market

Component IV: Project coordination, accounting for UA 1.97 million of the total loan amount.

- (i) Preparation of 8 years' strategic plans in TIs
- (ii) Project management and coordination
- (iii) Financial management, internal and annual external audit
- (iv) Procurement of goods, works and services and monitoring of activities

1.3 The Assurance Process (AP)

1.3.1 Objective of the Assurance Process

To collect, analyse, interpret, simplify and disclose the HEST Project information items collected by the Assurance professional in a simple and understandable format.

1.3.2 Specific objectives of the Assurance Process

- (i) To monitor the compliance of participating procuring entities with the Interim Disclosure Requirement (IDR)/Formal Disclosure Requirement (FDR) in terms of the completeness and accuracy of the disclosed information.
- (ii) To highlight issues of potential concern that is revealed by the disclosed information. This relates to individual projects as well as common performance concerns across the participating procuring entities.
- (iii) If appropriate, to carry out a more detailed review of a sample of projects or refer projects of concern to an independent authority.

2.0 METHODOLOGY

2.1 General Methodology

The second Assurance Process was informed and guided by the CoST Disclosure and Assurance Manual Version 2018. This process involved retrieving, verification, analysis, interpretation and presentation of project information disclosed by MoES both pro-actively and reactively on the HEST project. The process indeed exploited the technical knowledge, experience and engineering judgment of the Assurance Professional and CoST Assurance International Experts to objectively analyse in depth and highlight specific points of interest on the HEST project. A detailed description of the methodology adopted is elaborated in the sections below

a) Identification of Procuring Entities

Identification of PEs to participate in the study was done by the Multi-Stakeholder Group. The selected PEs had ongoing projects that already had some information being disclosed. This paved way for ready access to pro-actively disclosed information to initiate the engagements with the PEs while requesting additional re-actively disclosed information to inform the process.

b) Hold initial meetings with Procuring Entities

The initial meetings introduced the Procuring Entities to; (1) the objectives of the study and (2) the IDS that was used to obtain data and the core features of CoST which are, *Assurance, Disclosure, Multi-Stakeholder Engagement, and Social accountability*. The Multi-Stakeholder Group further elaborated the relevance and benefits of the Assurance Process to the PEs. During these meetings, the MSG agreed with the Procuring Entities on the projects to be subjected to CoST Assurance Process, the Project contact person(s) from the Procuring Entities and methods of communication. It was in these meetings that, formal commitment from the PEs was retrieved. The meeting with Ministry was held on 23rd February 2018 and the formal letter was issued on 13th April 2018.

c) Research design

The Assurance Team agreed on the strategies and methods (*see subsections (g), (h), (i) and (j)*) to collect, measure and analyse the data in order to successfully and accurately conduct the assurance process. The study was structured in a way that ensured that both qualitative and quantitative data was collected, measured and analysed. Effective use of data collection instruments and tools ensured this. The major data collection tool used was the CoST Infrastructure Disclosure Framework including pro-active and re-active data points.

d) Participant study

The study population involved participation of the Procuring Entities Procurement and Disposal Units, Project Managers from the Procuring Entities, Project Consultants, and Project Contractors, and citizens from local communities and student membership. The assurance team worked closely with the participants to ensure that quality, efficient, effective and correct data is retrieved, analysed and verified to enable access to adequate information.

e) Proactive Disclosure

Proactive disclosure relates to information that the CoST IDS requires project owners and Procuring Entities to disclose for all eligible projects and contracts at specified stages during the infrastructure project cycle. The information should be in a clear and usable format and disseminated through a public medium that is open and accessible to a wide range of stakeholders. Such information was accessed

from the Procuring Entities website, Project Consultants website, Project Contractors website, and other available platforms used to disclose information. See table 3, section 4.0 for platforms accessed

f) Reactive Disclosure

Reactive disclosure relates to additional information that project owners and procuring entities are required to make available to any eligible person or entity upon request. Reactive disclosure involved making the additional information available to the requesting party in a usable form, in an accessible place and under a specified set of conditions. Using the CoST - IDS, the Assurance Team studied the information availed from the Procuring Entity prior to the field visit. Information during the desk study phase was extracted in a simple and easy to understand CoST Disclosure format which was later shared and discussed with the PE Focal Persons who on some occasions verified information and provided more information that would be available.

g) Data collection methods

Three main data collection methods were employed.

- i. **Interviews** and interactive formal or informal one-on-one chats were carried out with the relevant parties to collect relevant data. Interviews took the form of face-to-face interactions with stakeholders.
- ii. **Site visits.** The Assurance Professionals carried out a tour of the project sites to visually inspect works and look out for evidence or collect data in line with the CoST IDS. The Assurance Professionals followed CoST protocol during site visits.
- iii. **Review of Project documentation.** Data relevant to the CoST IDS was obtained from documentation provided by the Procuring Entity officials.

h) Data collection instruments

Checklists and Cameras were the main data collection tools;

- i. **Checklists** were used to ensure that data is collected as per the CoST IDS.
- ii. **Cameras** to collect photographic data. The cameras were set to include a time and date stamp of the photographs.

i) Data collection quality control

Validity and reliability were ensured by using interview guidelines and the use of semi-structured questionnaires in line with CoST IDS as instruments of data collection. The data collection tools were pre-tested and approved by CoST.

j) Data Analysis techniques

Data analysis techniques depended on whether it is qualitative or quantitative data. This Assurance process, sought to find both qualitative and quantitative data;

- i. **Quantitative data:** This was analysed statistically in form of tables, histograms and an explanation of collected data.
- ii. **Qualitative data:** This was descriptive and it was treated as such to provide comprehensive reactions to the obtained data.

3.0 SCOPE OF THE ASSURANCE PROCESS

HEST is a priority investment sector for Uganda, because the country aims to increase its capacity in high-level human capital, currently the weakest in the East Africa region (*ADF Project Appraisal Report, September 2012*). The project targets improving and expanding six public universities and two strategic tertiary education institutions to make them responsive to the demand for more focused skill production as required by the market. This assurance process focuses on the construction component of the project in three of the six universities that will benefit from the HEST project. The scope of construction works in the three selected beneficiary universities under HEST is listed as follows.

- i. Makerere University (Mak)
- ii. Busitema University (BU)
- iii. Mbarara University of Science and Technology (MUST)

1. Makerere University

1.1. Rehabilitation works

- i. College of Engineering Design Art & Technology (CEDAT)
- ii. College of Health Sciences (CHS)
- iii. College of Veterinary Medicine, Animal Resources & Biosecurity (COVAB)
- iv. College of Education and External sciences
- v. College of Agriculture and Environmental Sciences (CAES)
- vi. College of Natural Sciences (CoNAS)
- vii. All inclusive of associated external works

1.2. New works

- i. Central Teaching Facility (near CHUSS)
- ii. Central Teaching facility (near CoBAMS)

2. Busitema University

Rehabilitation works

- i. Renovation of existing workshop (Main campus)
- ii. Renovation of existing workshop (Nagongera Campus)
- iii. All inclusive of associated external works

New works

- i. Laboratory and Lecture Block (Main Campus)
- ii. Library Block (Main campus)
- iii. Laboratory block (Nagongera Campus)
- iv. All inclusive of associated works

3. Mbarara University of Science and Technology (MUST)

- 3.1. Library Block
- 3.2. Hostel Block
- 3.3. Multi-purpose Laboratory block for faculty of applied sciences
- 3.4. Engineering workshop
- 3.5. Business Incubation centre (Buhoma Campus)

4.0 LIMITATIONS

The AP experienced the following limitations during the assurance process,

1. Delay in disclosure of information by the PE as a result of unavailability of concerned persons due to various commitments.
2. Scope of the assurance process set by the MSG was too big for the time and resources allocated to the process.
3. Various engagements of the AP resulted in limited time for the Assurance Process as the time frame envisaged and allocated to the activity elapsed due to delay in disclosure of information by the PE.

5.0 DISCLOSURE OF INFORMATION

Information disclosure assessment was based on two levels of the CoST Infrastructure Data Standard, namely, proactive and reactive disclosure.

Proactive disclosure assessment looked at online platforms such as websites of the PE, beneficiary institutions, funder and PPDA, on physical project signboards, as well as disclosure publications by the Procurement Entity (PE), to look out for proactively disclosed project information relating to the CoST IDS. Data points looked at are listed in Table 1 below.

Table 1: Data Standard items for Proactive Disclosure of Information

Project Information	
Project Identification:	Project Completion
<ol style="list-style-type: none"> 1. Project reference Number 2. Project Owner 3. Sector, Sub-sector 4. Project name 5. Project Location 6. Purpose 7. Project Description 	<ol style="list-style-type: none"> 1. Project Status (Current) 2. Completion Cost (Projected) 3. Completion Date (Projected) 4. Scope at Completion (projected) 5. Reasons for Changes 6. Reference to Audit and Evaluation reports
Contract Information	
Project preparation	Calendar Implementation
<ol style="list-style-type: none"> 1. Project Scope (Main output) 2. Environmental Impact 3. Land and Settlement Impact 4. Contract Details 5. Funding Sources 6. Project Budget 7. Project Approval Date 	<ol style="list-style-type: none"> 1. Variation to Contract price 2. Escalation of contract price 3. Variation to contract duration 4. Variation to contract scope 5. Reason for price changes 6. Reason for scope and duration changes
Procurement	
<ol style="list-style-type: none"> 1. Procuring Entity 2. Procuring Entity Contact Details 3. Procurement Process 4. Contract type 5. Contract status 6. Number of firms tendering 7. Cost estimates 8. Contract administration 9. Contract title 10. Contract Firms 11. Contract Price 12. Contract scope of work 13. Contract start date 14. Contract Duration 	

To validate the information proactively disclosed by the PE and get additional information not proactively disclosed by the PE a reactive disclosure exercise was carried out in accordance with the MoU between MSG and MoES. The PE was requested to avail documents relating to the various datapoints of the CoST IDS to the Assurance Professional (AP) for assessment and retrieval of information relating to the infrastructure data points. Data points used for the reactive disclosure exercise are presented in table 2 below.

Table 2: Data Standard items for reactive disclosure of information

Project Information	
Project Identification and preparation:	Project Completion
<ol style="list-style-type: none"> 1. Multi-year programme & Budget 2. Environmental and social impact assessment 3. Resettlement and Compensation plan 4. Project officials and roles 5. Financial Agreement 6. Procurement plan 7. Project Approval decision 	<ol style="list-style-type: none"> 1. Implementation Progress reports 2. Budget amendment decision 3. Project Completion report 4. Project Evaluation report 5. Technical Audit reports 6. Financial Audit reports 7. Contract Officials and Roles
Contract Information	
Procurement	Contract
<ol style="list-style-type: none"> 1. Procurement method 2. Tender Documents 3. Tender Evaluation results 4. Project design report 	<ol style="list-style-type: none"> 1. Contract Agreement and Conditions 2. Registration and Ownership of firms 3. Specifications and drawings
Implementation	
<ol style="list-style-type: none"> 1. List of variations, changes and amendments 2. List of escalation approvals 3. Quality assurance reports 4. Disbursement records or payment certificates 5. Contract Amendments 	

Table 3 below, shows the data retrieval tools adopted for the assurance process. It illustrates platforms accessed for data retrieval for proactive disclosure assessment and documents disclosed by the PE to the AP upon request.

Table 3: Summary of Data Retrieval Tools

Disclosure	Data retrieval Tools/Platforms/documents
Proactive Disclosure	<ul style="list-style-type: none"> – Websites, www.education.go.ug, www.finance.go.ug, www.ppda.go.ug, www.afdb.org, https://pdd.mak.ac.ug/index.php/programmes/afdb-hest, www.user.ug/projects, oldsite.busitema.ac.ug/about/?action=implementation, https://news.mak.ac.ug/2015/12/mak-adb-v-hest-infrastructure-projects-kicks, www.must.ac.ug/collaborations/afdb-hest-project/, www.busitema.ac.ug, – Project sign boards
Reactive Disclosure	<ul style="list-style-type: none"> – Bid Evaluation Reports, – Project progress reports, – Contracts Documents, – Project Appraisal Report, – Payment records, – Bills of Quantities, – Drawings and Specifications – Valuation reports



Figure 1: Disclosure of basic data on project Signboard

The AP's findings show that proactive disclosure of information on the selected projects in relation to the CoST IDS is incomplete as only a few data points have been proactively disclosed.

On the PE's website, there is no information on the selected projects for this assurance process. Websites of the beneficiary institutions and project Signboards erected on site provide some information about the projects. Table 4 below illustrates the level of proactive and reactive disclosure as per the data points IDS.

Table 4: Level of Disclosure

IDS Disclosure Items		Number of Disclosed Data Points			
Proactive Disclosure	IDS Points	Mbarara University (MUST)	Busitema University	Makerere University	Percentage Disclosure
Project Identification	7	7	7	7	100%
Project Preparation	7	3	3	3	42.86%
Project Completion	6	1	1	1	16.67%
Procurement	14	7	7	7	50%
Calendar Implementation	6	0	0	0	0%
Total	40	18	18	18	45%
Reactive Disclosure					
Project Identification	8	6	6	6	75%
Completion	6	5	5	5	83.33%
Procurement	5	3	3	3	60%
Contract	3	3	3	3	100%
Implementation	5	5	5	5	100%
Total	27	22	22	22	81.48%

Overall Total	67	40	40	40	59.7%
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- The level of disclosure for items for pro-active disclosure stands at 45% while that for reactive disclosure at 81.48%. The overall level of disclosure for the Procuring Entity on the project stands at 59.7%
- Figures 1 & 2 shows the level of disclosure for each data point in relation to the IDS for proactive disclosure and reactive disclosure respectively.

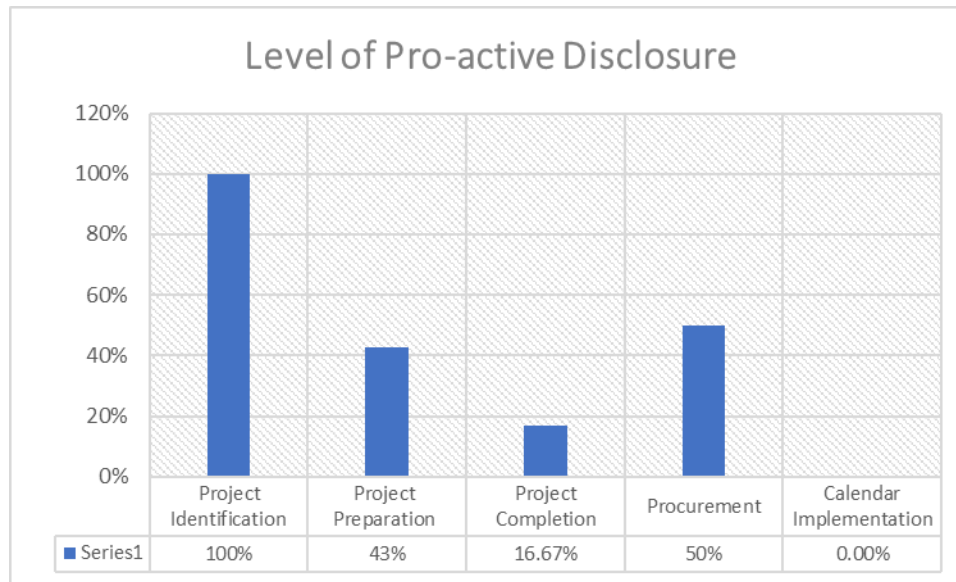


Figure 2: Level of Proactive Disclosure

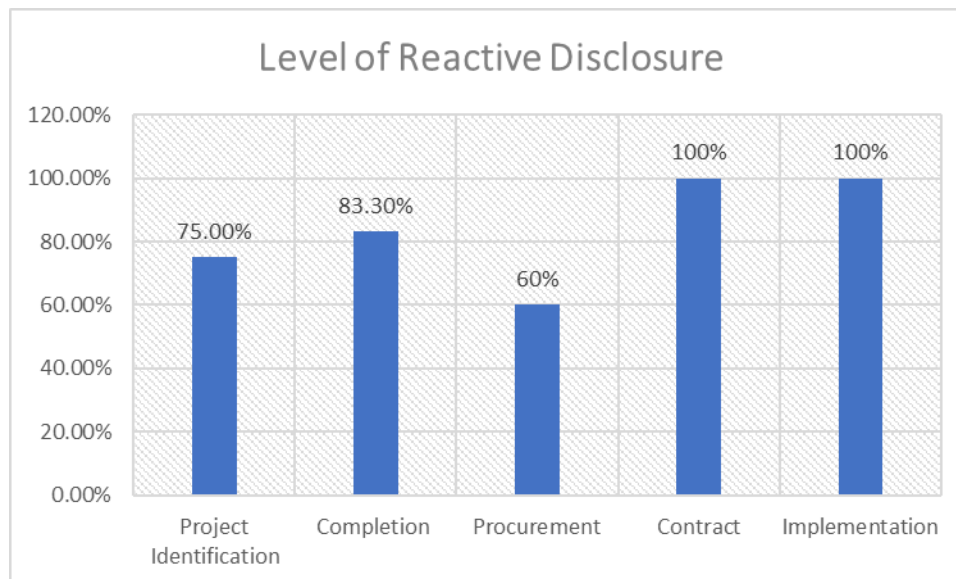


Figure 3: Level of reactive Disclosure

6.0 DOCUMENTARY REVIEW

6.1 The Project

The Assurance process found out that;

- The HEST Project is an initiative by the Government of Uganda through the Ministry of Education and Sports and supported by the Africa Development Fund (ADF) that aims to contribute to building Uganda's human capital skills development capacity.
- It involves the active participation of public universities and degreeawarding tertiary institutions in skills training, at the various levels of higher learning.
- The project is aligned to the country's National Development Plan 2010/2011–2014/2015 that aims at making Uganda an industrialized economy in 2025 through the provision of higher-level skills.
- The total estimated cost of the project is UA 74.44 million, and it will be implemented over a five-year period (2013 to 2019).
- The project is financed with a loan from the Africa Development Bank amounting to UA 67,000,000 equivalent to USD 94,470,000 excluding local taxes.
- The purpose of the loan is to finance the entire foreign currency cost and part of the local currency cost of the project.
- The loan is to be repaid over a period of 40yrs after 10year grace period commencing from the date of agreement at a rate of 1% per annum from the 11th to the 20th Year and 3% per annum thereafter.
- A service charge of 0.75% per annum on the principal amount disbursed and outstanding from time to time was to apply, and a commitment charge of 0.5% per annum on the undisbursed portion of the loan which would begin to accrue 120days after the agreement date will also apply.

6.2 Project Preparation

- Through the stages of identification, preparation and appraisal of the project, the project team consulted various stakeholders with a view to enhance ownership of the project and identify priorities and opportunities. The stakeholders consulted included, the beneficiary institutions, Uganda Communications Commission, Ministry of Gender, Labour and Social Development, Uganda Industrial research institute, Uganda National Council of Science and Technology.
- The project targeted institution that offer science related training. The beneficiary institutions include, Makerere University, Kyambogo University, Busitema University, Gulu University, Muni University, Makerere University Business school, Mbarara University of science and Technology and Uganda Management Institute.
- Working meetings were held with technical departments of beneficiary institutions, which provided all required details for the prioritised sectors of the respective institutions.
- Consultations with the private sector were held with Uganda Manufacturer's Association (UMA), Private Sector Foundation Uganda (PSFU), Centro Internacional de Agricultura Tropical (CIAT) to assess the nature of programs at HEST institutions and the suitability of graduates for the labour market.
- The HEST project is classified as category II according to ADB environmental guidelines because there are no major negative environment effects that will be caused by the expansion of the tertiary institutions and construction of new institutions.

- A resettlement and compensation Plan were not required since no people were expected to be displaced by the project because, activities supported by the project were to take place in the already existing institutions where the land has no third-party claims.

The resources from the loan were allocated as follows;

Table 5: Allocation of HEST Project Funds

Category	Loan Allowance (UA)	New Allocation (UA)	Percentage Allocation
Goods	25,450,000	25,757,706	38.44%
Works	34,150,000	34,584,977	51.62%
Services	6,040,000	5,684,540	8.49%
Operating Costs	150,000	12,574	0.02%
Miscellaneous	1,210,000	960,203	1.43%
TOTAL	67,000,000	67,000,000	100%

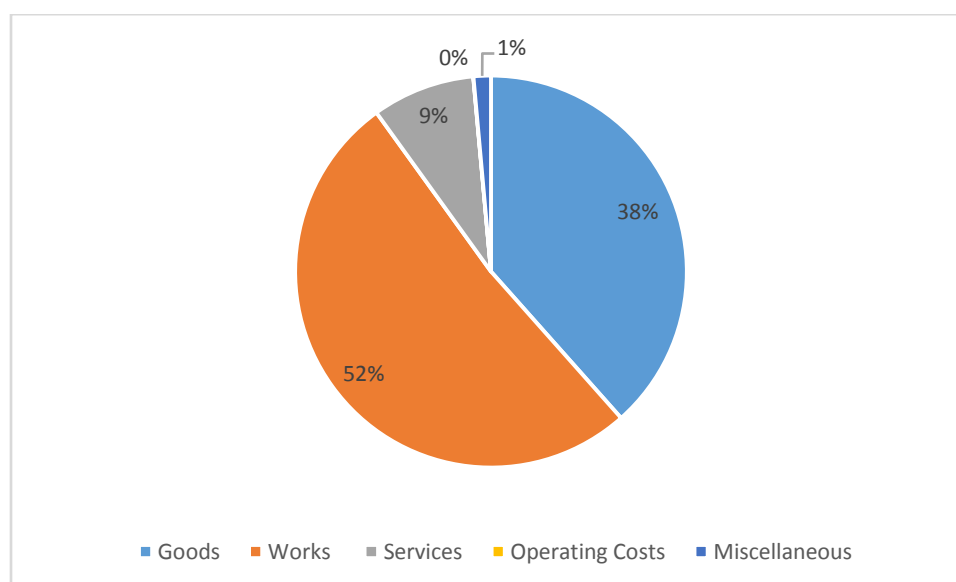


Figure 4: Allocation of Loan Funds

The cost of the works at the universities of Makerere, Busitema and Mbarara were estimated as follows.

Table 6: Funds allotted for Works at Universities undergoing the Assurance Process

University	Funds Allotted (UA)	Percentage of Total Project Cost Estimate
Makerere University	8,660,000	11.64%
Mbarara University	3,530,000	4.75%
Busitema University	3,950,000	5.31%
Other TIs	58,260,000	78.3%
TOTAL	74,400,000	100%

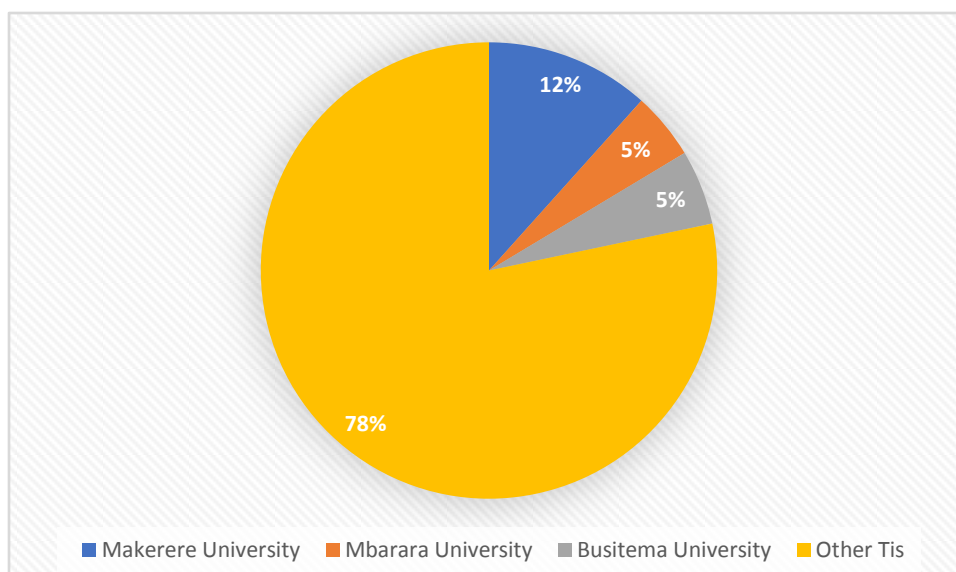


Figure 5: Works Funds Allocation

- Funds allocated for works and services were geared to renovation and construction of new facilities at the beneficiary universities.
- Makerere University scope involved construction of two central teaching facilities and Rehabilitation of Laboratories at Six Colleges,
- MUST involved construction of one Library block and one Multipurpose laboratory block for Faculty of applied sciences Mbarara University of Science and Technology (MUST) at Kihumuro Campus, Construction of a Hostel Block at Kihumuro campus and Business Incubation Centre at Buhoma, whereas,
- Busitema University entailed construction of one Laboratory & lecture Block, one Library block and renovation of existing workshops for Busitema University at the Main Campus, and one new laboratory block and renovation of existing Laboratory block at Nagongera Campus detailed as follows.
- The project design and implementation strategy take into consideration issues of environmental protection and social impact. The project brings positive impacts to the environment such as, improved aesthetics of the institutions, decongestion of teaching and learning facilities, reduction of water Borne diseases like cholera due to improved infrastructure and better learning environments due to improved laboratories and workshops.

Project Environment Enhancement and Mitigation program,

- Improved sanitation facilities through the overhauling of sewerage and sewage treatment systems on the campuses for proper disposal of solid waste,
- Overhauling and expansion of water supply systems to provide safe drinking water; to avoid contamination of water sources, the water points designed and constructed in such a way as to ensure proper drainage of waste water so as to prevent any possibility of water stagnation, which may pose the risk of ground water contamination and development of breeding grounds for mosquitoes, flies and other insects.
- Waste collection and disposal or disposal systems on campus improved
- Existing trees and greenery on the project sites preserved to protect the soils, provide shade and serve as wind shields
- Improved landscaping adopted and new vegetation and trees planted

- The project has instituted an environment monitoring and protection regime. There is regular monitoring and reporting on adherence/non-compliance to mitigation strategies set for potential environment risks.

6.3 Project Procurement

- This Assurance process focused on procurement for services and works for the construction works on proposed facilities at Makerere University, Busitema University and Mbarara University.
- The Procurement was conducted by the Ministry of Education and Sports (MoES) as the Procuring Entity (PE).
- Procurement for works was carried out using the African Development Bank's Standard Bidding documents while services were procured in accordance with the Bank's Rules and procedures for the use of Consultants (May 2008, Revised July 2012) with local amendments approved. All procurement documents were subjected to reviews and approvals by the Bank.

The procurement for services and works for the three universities was carried out in lots as follows,

Works:

- Lot 3A: Construction of 2 No. Central teaching facilities and Rehabilitation of Laboratories at Six Colleges at Makerere University.
- Lot 7: Proposed Construction of One (1) Laboratory & lecture Block, One (1) Library block and renovation of existing workshops for Busitema University at the Main Campus, and one (1) new laboratory block and renovation of existing Laboratory block at Nagongera Campus.
- Lot 5: Proposed construction of One (1) Library block and one (1) Multipurpose laboratory block for Faculty of applied sciences Mbarara University of Science and Technology (MUST) at Kihumuro Campus
- Lot 15: proposed Construction of a Hostel at Mbarara University of Science and Technology (MUST) at Kihumuro Campus and Construction of two (2) Engineering works shops at Kyambogo University.
- Lot 4C: Proposed Construction of a Business Incubation Centre at Mbarara University of science and Technology (MUST)

Services

- Lot 1: Design Review, Design and supervision of Civil works relating the rehabilitation and construction of new facilities at Makerere University.
- Lot 4: Design Review, Design and supervision of Civil works relating the rehabilitation and construction of new facilities at Mbarara University of Science and Technology (MUST) and Busitema University
- Six Firms tendered for works at Makerere university, sixteen for the Library block and Multipurpose Laboratory at MUST, nine for the Business Incubation Centre at MUST and Thirteen for works at Busitema University.
- Six firms were shortlist for provision of services for design review, design and supervision of civil works at Makerere University and only two returned bids. For services at Mbarara and Busitema Universities, six firms were shortlisted and five returned bids.
- Works at Makerere University were awarded to EXCEL Construction Limited (Uganda) while services for design review, design and supervision of civil works were awarded to ARCH Design Limited (Uganda),
- Works at Busitema University were awarded to PRISMA Limited (Uganda) while services for design review, design and supervision of civil works were awarded to HABITAT Consultants (Uganda),
- Works at MUST were awarded to M/S China Nanjing International Limited (China & registered in Uganda) for the Construction of a Hostel block at (MUST) Kihumuro Campus, EXCEL Construction

Limited for the construction of a Library and Multipurpose Block at MUST (Buhoma) and HAPINESS Enterprises for the construction a Business Incubation Centre at MUST (Kihumuro Campus). Services for design review, design and supervision of civil works were awarded to HABITAT Consultants (Uganda).

- Works at Makerere University were sourced by International Competitive Bidding (ICB) with prequalification while evaluation & selection was by Technical Compliance Selection (TCS). The winning bid for the works amounted to USD 12,280,109.97 (VAT inclusive). Services for Makerere University were sourced by International Competitive Bidding with prequalification and evaluation by Quality Cost Based Selection (QCBS). The winning bid for the services amounted to USD 436,157.5 (inclusive of VAT)
- Works at Busitema University were sourced by International Competitive Bidding (ICB) with prequalification while evaluation & selection by Technical Compliance Selection (TCS). The winning bid for the works amounted to USD 5,421,207.05 inclusive of VAT. Services for design review, design and supervision of civil works for MUST and Busitema university were in one lot and were sourced by International Competitive Bidding with prequalification, and evaluation by Quality Cost Based Selection (QCBS). The winning bid for the services amounted to USD 337,067 including VAT.
- Works at MUST were sourced by International Competitive Bidding (ICB) with prequalification while evaluation & selection by Technical Compliance Selection (TCS). Winning bids amounted to; Hostel & Workshop – UGX 8,456,363,538 paid by ADF, Contract had VAT exemption, Library Block & Multipurpose Laboratory – USD 4,801,076.74 including VAT and Business Incubation Centre – UGX 1,106,603,939 including VAT.
- Contract signing for works at Makerere University took place on 16th December, 2015 and commencement was expected two (2) weeks after contract signing. The Contract signing for works at Busitema University took place on 31st December, 2016 while commencement was expected in two (2) weeks after contract signing. Contract signing for works at MUST took place on 15th December, 2017 for the Hostel (MUST) & Engineering workshop (Kyambogo University) and 26th April, 2016 for works on Library Block & Multipurpose Laboratory. Commencement was expected two (2) weeks after contract signing.
- All contracts for works at the three universities were Admeasurement Contracts whereas contracts for services for design review, design and supervision of civil works were Lump Sum Contracts

Observations

- The works Contractors and project Consultants are locally registered companies predominantly owned by Ugandans. This is in line with the 30% Local content requirement set by the Public Procurement and Disposal of Assets Authority (PPDA).
- The procurement process generally followed procedures and guidelines laid out by the African Development Fund (ADF) amended to incorporate PPDA rules and guidelines and align with its principles of procurement
- There were significant savings from the project procurement process which monies were used for construction of extra facilities deemed necessary in attaining the strategic objectives of the HEST Project. For example, on Makerere University there was a saving of USD 1,227,423.66 which was channelled into construction of a new Diary value centre at kabanyolo campus
- Firms selected for works and services have the prerequisite expertise to handle project
- The procurement Entity sought “ a no objection” from the funder at all stages of the procurement process all the way from sourcing to selection of Contractors and Consultants.

Concerns:

- The Contract for Design review and Supervision of civil works at Makerere University was awarded to ARCH Design who was the original design consultant contracted by Makerere University. A consultant reviewing his own design presents a potential conflict of interest and takes away benefit of having an independent eye to review designs and might lead to design omissions or overdesign which could easily lead to inflated project costs.

6.4 Project Implementation

- Generally, the civil works have been substantially completed. By June 2018, Makerere University had attained 92% completion with practical completion and handover expected in December 2018, MUST 100% completion whereas BU 97% completion, with overall completion and handover expected in August 2018.
- The supervising consultants prepare and issue quarterly progress reports commenting on the program, cost, scope and quality of the respective projects.
- There has been extension of project completion dates at Makerere University, MUST and BU due to additional works and variations in the project scope and quantities.
- As of June 2018, Makerere university had a cost overrun of USD 289,290.58 brought about by additional works and variations, whereas the gross valuation of MUST and BU shows no cost overruns on the respective projects.
- Supervision missions by the African Development Bank act as a good tool for monitoring and evaluating the projects and aids in providing quick solution in areas where the project may not be performing as expected.

Concerns

- Delay in payment of Contractor's certificates issued by the Consultants especially on the part of Government of Uganda. This may affect project delivery times and may lead to claims from the contractors which could easily lead to project cost overruns.

7.0 SITE INSPECTION VISIT FINDINGS

The site inspection visit was done with the objective of verifying that,

- the project exists and located in the right place
- the work executed is generally consistent with the technical, environmental and social specifications,
- the executor has the technology, equipment, materials and personnel for proper execution of the project,
- physical progress is consistent with the financial progress and this corresponds to the advance in publishing points on Infrastructure Data Standard CoST
- the project's impact on the population,
- the Project activities and milestones achieved
- the possible changes in Project, how they affected the scope of the Project and their justifications

Mbarara University of Science and Technology (MUST), Makerere University and Busitema University were visited on 4th October, 2018, 5th October, 2018 and 11th October, 2018 respectively. Observation made during the inspection visits are itemised for each university.

Facilities visited at Mbarara University of Science and Technology (MUST) include, Library block, Multipurpose laboratory and the Girls Hostel at Kihumuro campus. Observations made during the site inspection visit are itemised and summarised in table 7 below

Table 7: Site inspection visit observations on the Multipurpose Laboratory Block and Library Block at MUST

Project	Technical and Administrative Aspects	Performance Indicators	Site Visit Remarks
Multipurpose Laboratory Block and Library Block	Adequacy of Contractor's Mobilization	Adequacy of skills of Labour	- N/A, visited facilities have been completed and handed over
		Presence and condition of Equipment	- N/A, visited facilities have been completed and handed over
		Presence of Construction Materials on site	- N/A, visited facilities have been completed and handed over
		Assurance, performance Bonds	- N/A, visited facilities have been completed and handed over
		Program of works	- N/A, visited facilities have been completed and handed over
	Health and Safety (H&S)	Site Hoarding	- N/A, visited facilities have been completed and handed over
		Personal protection gear	- N/A, visited facilities have been completed and handed over
		H&S Signage on site	- N/A, visited facilities have been completed and handed over
		H&S training	- N/A, visited facilities have been completed and handed over
		H&S Personnel on site	- N/A, visited facilities have been completed and handed over
		First Aid Kit on site	- N/A, visited facilities have been completed and handed over
		Toilet facilities on site	- N/A, visited facilities have been completed and handed over
		Dining Facilities on site	- N/A, visited facilities have been completed and handed over

		Clean Drinking Water	- N/A, visited facilities have been completed and handed over
	Environmental & Social Impact	Displacement and resettlement of Locals	- Land belongs to MUST, therefore no displacement and re-settlement of communities of individuals took place
		Waste disposal	- No signs of waste piling on site, all debris generated due to construction activity has been cart away and site cleaned. - No strategies for solid waste collection were noticed on site
		Water source protection	- There was no water body noticed in the vicinity of the site. The potential of ground water pollution by foul water is mitigated by prior treatment of waste water by use of septic tanks
		Protection and against soil erosion	- No signs of soil erosion or land degradation as a result on the project were observed
		Dust emission from construction	- N/A, project completed and handed over. The site has however been paved and vegetated, therefore dust generation and emission are not expected.
		Noise generation & emission	- The contractor had handed over the sites and had minimum activity on site, therefore there was minimum potential for noise generation - Provisions made in the Library block for sound absorbing surfaces, for better comfort of use.
		Protection of vegetation	- The sites adopted for the project did not have prior substantial vegetation cover. - All unpaved areas have been revegetated
		Stakeholder ownership, benefits and satisfaction	- Decongestion of teaching and learning environment - General excitement about the new facilities and the prospective benefits observed among students and university management - Frustration due to delay of supply of furniture and equipment noticed. Students were observed attending lecture sessions while standing
		Protection of Neighbouring properties	- No noticeable direct effect of the project on neighbouring properties was observed
		Access routes	- Access and circulation routes not paved, therefore there is potential for soil erosion
		Site Drainage	- Drainage structures were constructed

			around the facility to ensure adequate collection and disposal of storm water
		Usability of the Facility by Persons with Disabilities (PWDs)	- PWDs accommodated in the design of the facility by providing ramps to ease access and special toilet facilities for the PWDs
		Gender Parity	- Separate toilet facilities provided for both male and females
		HIV/AIDs awareness	- Efforts to create awareness among the beneficiaries not apparent on site
	Quality Control and Assurance	Supervision Activities	- The project was supervised by contracted consultants
		Material testing	- Reports issued as part of the project completion report
		Condition of completed works	- The facility generally appears to be in a good structural condition - Structurally the facilities show no signs of distress inform of structural cracks, excessive vibrations, deflections and spalling of concrete - A few snags such as localized roof leakages, damage to ceiling boards, etc. were observed in the finishes and require the attention of the Contractor.
		Workmanship	- The workmanship is generally of a good standard.
		Drawings and specifications	- Copies of drawings and specifications were not available on site as the project had been completed and handed over
	Status of Contract	Payments to Contractor	- The contractor was not available on site to insights on the payment status
		Progress of works	- The construction works have been completed and handed over to the Client. - There has been a delay in supply of equipment and furniture for the completed facilities
		Delays	- Though with delays, the facilities have been completed and handed over to the Client.
	Project sustainability	Risk assessment & mitigation plan	- Fire safety provisions have been made – fire detection and suppression, escape routes, signage and assembly points noticed in the facilities
		Operation and Maintenance	- The Defects Liability period is on; however, the facilities are not yet in use. This takes away the opportunity to check on the integrity of the facility while the Contractor is still liable - Floors in the library were made of sound absorbent material, which makes the space more functional and improves the

Below are selected photographic representation of the multipurpose laboratory block and the Library block already completed and handed over. The blocks have generally been designed and constructed well and only await rectification of a few snags by the Contractor, supply and installation of equipment and supply and placement of furniture.



Figure 9: Some Equipment delivered, awaits installation



Figure 10: PWD Toilet provision made

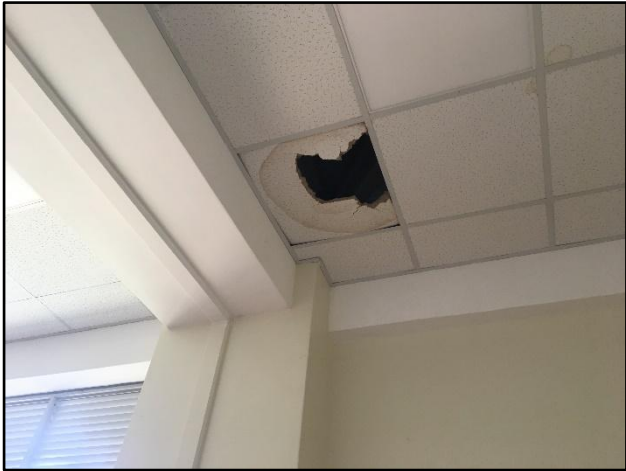


Figure 11: A few snags observed on the structure, notice the leakage signs

Table 8: Site Inspection observations at the Girls' Hostel at MUST Kihumuro Campus

Project	Technical and Administrative Aspects	Performance Indicators	Site Visit Remarks
Girls' Hostel at Kihumuro Campus	Adequacy of Contractor's Mobilization	Adequacy of skills of Labour	- A number of construction trades were observed on site including carpenters, masons and foremen. Each team had a supervisor
		Presence and condition of Equipment	- Fully operational carpentry on site, Concrete mixer, and other hand tools
		Presence of Construction Materials on site	- Sand, cement, reinforcement, concrete pavers, timber and flooring stones observed on site
		Insurance, performance Bonds	- Contractor's contact person not present on site for clarification
		Program of works	- Program of works available on site. Project behind schedule
	Health and Safety (H&S)	Site Hoarding	- Site hoarding present with a gate for access control
		Personal protection gear	- Some workers were wearing protective gear in form of helmets, gloves and hard shoes. - A good number of workers did not have protective gear while on site
		H&S Signage on site	- No Health and safety sign board, or message placards were observed on site.
		H&S training	- Workers had not undergone on site health and safety trainings on a regular basis
		H&S Personnel on site	- None was noticeable on site
		First Aid Kit on site	- None was onsite
		Toilet facilities on site	- No onsite facilities observed
		Dining Facilities on site	- No designated area on site
		Clean Drinking Water	- No special provision on site
	Environmental & Social Impact	Displacement and resettlement of Locals	- Land belongs to MUST, therefore no displacement and re-settlement of communities of individuals took place
		Waste disposal	- Piles of debris observed onsite. Debris collected requires disposal as per project environmental impact management plan, if any.
		Water source protection	- There was no water body noticed in the

			vicinity of the site. The potential of ground water pollution by foul water is mitigated by prior treatment of waste water by use of septic tanks
		Protection and against soil erosion	- Embankments not protected, therefore have potential for soil erosion during heavy storms.
		Dust emission from construction	- Substantial unvegetated area on site, potential for dust emission during strong winds. - Vehicular traffic to the site very low, therefore limited potential of dust emission from construction activity.
		Noise generation & emission	- Limited potential for noise pollution due to the nature of construction activity, machinery and isolated site location.
		Protection of vegetation	- The site adopted for the project did not have prior substantial vegetation cover. Planting new vegetation may be considered
		Stakeholder ownership, benefits and satisfaction	- Provision of on campus hostel facilities as there is still a challenge of student accommodation in the vicinity of the Kihumuro campus - General excitement about the new facilities and the prospective benefits observed among students and university management
		Protection of Neighbouring properties	- No noticeable direct effect of the project on neighbouring properties was observed
		Access routes	- Access and circulation routes not paved, therefore there is potential for soil erosion
		Site Drainage	- Surface water drainage structures not yet constructed, no temporary drainage structure observed onsite
		Usability of the Facility by Persons with disabilities (PWDs)	- PWDs accommodated in the design of the facility by providing ramps to ease access and special toilet facilities for the PWDs
		Gender Parity	- Hostel gives priority to accommodation of female students.
		HIV/AIDs awareness	- Efforts to create awareness among the construction workers not apparent on site. There are no message signboards
	Quality Control and Assurance	Supervision Activities	- The project is supervised by contracted Consultants - There is presence of a clerk of works nominated by the Ministry of Education and Sports
		Material testing	- Material test reports were not disclosed

			for review.
		Condition of completed works	<ul style="list-style-type: none"> - The facility though still under construction, generally appears to be in a good structural condition - Structurally the facility shows no signs of distress inform of structural cracks, excessive vibrations, deflections and spalling of concrete
		Workmanship	<ul style="list-style-type: none"> - Generally, appears good, but will require further inspection on completion of finishing works
		Drawings and specifications	<ul style="list-style-type: none"> - Copies of drawings available on site and pinned up in the site office for access to site visitors
	Status of Contract	Payments to Contractor	<ul style="list-style-type: none"> - Contractor mentioned delays in payment of certificates
		Progress of works	<ul style="list-style-type: none"> - 65% completion attained. Project behind schedule.
		Delays	<ul style="list-style-type: none"> - Project has experienced delays due to variations in scope and some delays in payment of certificates



Figure 12: Girls' Hostel at MUST Kihumuro campus, undergoing finishes



Figure 13: Status of internal finishing works at the girls' hostel



Figure 15: Unprotected Embankments

Facilities visited at Makerere University include, Central Teaching Facility 1, Central teaching Facility 2, Library block, rehabilitation works at College of Health Sciences (CHS), Rehabilitation works at College of Veterinary Medicine, Animal Resources & Biosecurity (COVAB) and Makerere University Research Institute Kabanyolo (Dairy Value chain and Graduate training and research facility). Observations made during the site inspection visit



Figure 16: Ramp constructed using money saved from decision to reduce the parking area. Ramp to improve access especially for PWDs



are itemised and summarised in table 9 below

Figure 17: onsite Carpentry workshop, Notice man operating machine without personal protective gear

Table 9: Site Inspection visit observations at Makerere University (Completed works)

Project	Technical and Administrative Aspects	Performance Indicators	Site Visit Remarks
central Teaching Facility 1, Central teaching Facility 2, Rehabilitation works at College of Health Sciences (CHS), Makerere University Research Institute Kabanyolo (MUARIK) - Dairy Value chain and Graduate training and research facility.	Adequacy of Contractor's Mobilization	Adequacy of skills of Labour	- N/A, visited facilities have been completed and handed over
		Presence and condition of Equipment	- N/A, visited facilities have been completed and handed over
		Presence of Construction Materials on site	- N/A, visited facilities have been completed and handed over
		Insurance, performance Bonds	- N/A, visited facilities have been completed and handed over
		Program of works	- N/A, visited facilities have been completed and handed over
	Health and Safety (H&S)	Site Hoarding	- N/A, visited facilities have been completed and handed over
		Personal protection gear	- N/A, visited facilities have been completed and handed over
		H&S Signage on site	- N/A, visited facilities have been completed and handed over
		H&S training	- N/A, visited facilities have been completed and handed over
		H&S Personnel on site	- N/A, visited facilities have been completed and handed over
		First Aid Kit on site	- N/A, visited facilities have been completed and handed over
		Toilet facilities on site	- N/A, visited facilities have been completed and handed over
		Dining Facilities on site	- N/A, visited facilities have been completed and handed over
		Clean Drinking Water	- N/A, visited facilities have been completed and handed over
	Environmental & Social Impact	Displacement and resettlement of Locals	- Land belongs to Makerere University;therefore, no displacement and re-settlement of communities or individuals took place
		Waste disposal	- No signs of waste piling on site, all debris generated due to construction activity has been cart away and site cleaned.
		Water source protection	- There was no water body noticed in the vicinity of the site. - The potential of ground water pollution by foul water is mitigated by prior treatment of waste water by use of septic tanks and direct connection to a public sewer line.
		Protection and against soil erosion	- No signs of soil erosion or land degradation as a result on the

			project were observed
		Dust emission from construction	<ul style="list-style-type: none"> - N/A, project has been completed and handed over. - The sites have been paved and vegetated, therefore dust generation and emission are not expected.
		Noise generation & emission	<ul style="list-style-type: none"> - There is limited potential for noise generation due to construction activity as the works have been completed and handed over.
		Protection of vegetation	<ul style="list-style-type: none"> - The sites adopted for the project did not have prior substantial vegetation cover. - Green/vegetated areas incorporated in the design and construction works
		Stakeholder ownership, benefits and satisfaction	<ul style="list-style-type: none"> - Decongestion of teaching and learning environment due to creation of additional space, - General excitement about the new facilities and the prospective benefits observed among students and university management - Frustration due to delay of supply of furniture noticed. University had to improvise by purchasing of plastic seats to facilitate usage of the much need space provided by the new facilities - The Dairy Value Chain at MURIK gives potential for income generation by the university, through supply of dairy products and animal feed to neighbouring communities and Uganda at large.
		Protection of Neighbouring properties	<ul style="list-style-type: none"> - No noticeable negative effect of the facilities' construction works on neighbouring properties was observed
		Site Drainage	<ul style="list-style-type: none"> - Drainage structures were constructed around the facilities to ensure adequate collection and disposal of storm water
		Usability of the Facility by Persons with disabilities (PWDs)	<ul style="list-style-type: none"> - PWDs accommodated in the design of the facility by providing ramps to ease access and special toilet facilities for the PWDs
		Gender Parity	<ul style="list-style-type: none"> - Separate toilet facilities provided for both male and females
		HIV/AIDs awareness	<ul style="list-style-type: none"> - Efforts to create awareness among the beneficiaries not apparent around the facilities, - No message boards were noticed in

	Quality Control and Assurance		any of the facilities,
		Supervision Activities	- The project was supervised by contracted consultants and record of site supervision and inspection activities were disclosed for review.
		Material testing	- Material test reports issued as part of the project completion report. Quality of material checked against project specifications
		Condition of completed works	- The facilities generally appear to be in a good structural condition - Structurally the facilities show no signs of distress in form of structural cracks, excessive vibrations, deflections and spalling of concrete.
		Workmanship	- The workmanship is generally of a good standard.
		Drawings and specifications	- Copies of drawings and specifications were not available on site as the construction works had been completed and handed over
	Status of Contract	Payments to Contractor	- The contractor was not available on site to give insights on the payment status
		Progress of works	- The construction works have been completed and handed over to the Client. - There has been a delay in supply of equipment and furniture for the completed facilities - A few snags need the attention of the contractor
		Delays	- Though with delays, the facilities have been completed and handed over to the Client.
	Project sustainability	Risk assessment & mitigation plan	- Fire safety provisions have been made – fire detection and suppression, escape routes, signage and assembly points noticed in the facilities - Cases of vandalism and theft noticed. E.g. some of the fire extinguishers had been stolen from Central Teaching Facility 2 (CFT2), the entrance Aluminium Casement door was damaged during construction.
		Operation and Maintenance	- The Defects Liability period is on; however, the facilities are not yet in use. This takes away the opportunity to check on the integrity of the facility while the Contractor is still liable - Rainwater harvesting system for

			<p>CFT 2 in place to supplement water from NWSC which is frequently inadequate due to low water pressure to flow into the reservoir.</p> <ul style="list-style-type: none"> - Facility custodians that oversee the day to day operations of the facility, look out for operational bottlenecks and report them to the concerned persons
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Figure 18: Central Teaching Facility at Makerere University Main Campus



Figure 19: Graduate Training and Research Laboratories at MURIK



Figure 20: Diary Value Addition chain at MURIK - renovated holding yard and Livestock Development Barn



Figure 21: Renovation of Bio-Security Laboratory at COVAB-Makerere University

Facilities visited at Busitema University on 11th October, 2018 include, Laboratory and Lecture block, Library Block at Main Campus, Laboratory block at Nagongera Campus, renovated workshop at Main campus and new Multipurpose block at Nagongera Campus. Observations made during the site inspection visit are itemised and summarised in tables 10 and 11 below.

Table 10: Site Inspection Observations at Busitema University - Completed Works

Project	Technical and	Performance	Site Visit Remarks
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	Administrative Aspects	Indicators	
Laboratory and Lecture block, Library Block at Main Campus, Laboratory block at Nagongera Campus, Renovated workshop at Main campus and	Adequacy of Contractor's Mobilization	Adequacy of skills of Labour	- N/A, visited facilities have been completed and handed over
		Presence and condition of Equipment	- N/A, visited facilities have been completed and handed over
		Presence of Construction Materials on site	- N/A, visited facilities have been completed and handed over
		insurance, performance Bonds	- N/A, visited facilities have been completed and handed over
		Program of works	- N/A, visited facilities have been completed and handed over
	Health and Safety (H&S)	Site Hoarding	- N/A, visited facilities have been completed and handed over
		Personal protection gear	- N/A, visited facilities have been completed and handed over
		H&S Signage on site	- N/A, visited facilities have been completed and handed over
		H&S training	- N/A, visited facilities have been completed and handed over
		H&S Personnel on site	- N/A, visited facilities have been completed and handed over
		First Aid Kit on site	- N/A, visited facilities have been completed and handed over
		Toilet facilities on site	- N/A, visited facilities have been completed and handed over
		Dining Facilities on site	- N/A, visited facilities have been completed and handed over
		Clean Drinking Water	- N/A, visited facilities have been completed and handed over
	Environmental & Social Impact	Displacement and resettlement of Locals	- Land belongs to Busitema University; therefore, no displacement and re-settlement of communities or individuals took place
		Waste disposal	- No signs of waste piling on site, all debris generated due to construction activity has been cart away and site cleaned.
		Water source protection	- The potential for pollution of the nearby river or ground water by foul water is mitigated by prior treatment of waste water by use of a lagoon.
		Protection and against soil erosion	- No signs of soil erosion or land degradation as a result on the project were observed
		Dust emission from construction	- N/A, project has been completed and handed over. - The sites have been paved and vegetated, therefore, dust generation and emission are not expected.

		Noise generation & emission	<ul style="list-style-type: none"> - There is limited potential for noise generation due to construction activity as the works have been completed and handed over.
		Protection of vegetation	<ul style="list-style-type: none"> - The sites adopted for the project did not have prior substantial vegetation cover. - Green/vegetated areas incorporated in the design and construction works
		Stakeholder ownership, benefits and satisfaction	<ul style="list-style-type: none"> - Creation of additional space to improve the teaching and learning environment, - General excitement about the new facilities and the prospective benefits observed among students and university management - Frustration due to delay of supply of furniture noticed. Facilities completed but not under use due to lack of furniture and equipment - Well-equipped workshops give opportunity for hand on training of students and income generation through fabrication and supply of finished goods to the construction industry - Participation of the university in the design and needs assessment gives the persons concerned a sense of ownership of the project.
		Protection of Neighbouring properties	<ul style="list-style-type: none"> - No noticeable negative effect of the facilities' construction works on neighbouring properties was observed
		Site Drainage	<ul style="list-style-type: none"> - Drainage structures were constructed around the facilities to ensure adequate collection and disposal of storm water
		Usability of the Facility by Persons with disabilities (PWDs)	<ul style="list-style-type: none"> - PWDs accommodated in the design of the facilities by providing ramps to ease access and special toilet facilities for the PWDs
		Gender Parity	<ul style="list-style-type: none"> - Separate toilet facilities provided for both male and females
		HIV/AIDs awareness	<ul style="list-style-type: none"> - Efforts to create awareness among the beneficiaries not apparent around the facilities, - No message boards were noticed in any of the facilities,
	Quality Control and Assurance	Supervision Activities	<ul style="list-style-type: none"> - The project was supervised by contracted consultants and records of site supervision and inspection

			activities were disclosed for review.
		Material testing	- Material test reports issued as part of the project completion report. Quality of material checked against project specifications
		Condition of completed works	- The facilities generally appear to be in a good structural condition, - Structurally the facilities show no signs of distress inform of structural cracks, excessive vibrations, deflections and spalling of concrete.
		Workmanship	- The workmanship is generally of acceptable standard.
		Drawings and specifications	- Copies of drawings and specifications were not available on site as the construction works had been completed and handed over
	Status of Contract	Payments to Contractor	- The contractor was not available on site to give insights on the payment status
		Progress of works	- The construction works have been completed and handed over to the Client. - There has been a delay in supply of equipment and furniture for the completed facilities - A few snags need the attention of the contractor e.g. Functionality of roller shutter handles and locks, storm water ponding at the Laboratory and Lecture Block
		Delays	- Though with delays, the facilities have been completed and handed over to the Client.
	Project sustainability	Risk assessment & mitigation plan	- Some Fire safety provisions have been made e.g. firefighting, escape routes, and assembly points were noticed in the facilities. However, no fire detection, fire alarm and safety signage were observed in some of the facilities
		Operation and Maintenance	- The Defects Liability period is on; however, the facilities are not yet in use. This takes away the opportunity to check on the integrity of the facility while the Contractor is still liable - Water supply options need to be checked to ascertain adequacy to run firefighting systems in place, especially during emergency.



Figure 226: Library Block at Busitema University, main campus



Figure 23: Laboratory and Lecture Block at Busitema Main Campus



Figure 24: Newly renovated Lagoon at Busitema University, Main Campus



Figure 25: Laboratory Block at Nagongera campus

Construction works on the Multipurpose block at Nagongera campus were still ongoing at the time of the site inspection visit. Observations made during the site inspection visit are itemised and summarised in tables 11 below.

Table 11: Site Inspection Visit observations on Multipurpose Block at Busitema University Nagongera Campus

Project	Technical and Administrative Aspects	Performance Indicators	Site Visit Remarks
Girls' Hostel at Kihumuro Campus	Adequacy of Contractor's Mobilization	Adequacy of skills of Labour	- A number of construction trades were observed on site including carpenters, masons and foremen. There was a contractor's site supervisor with sufficient skill to read construction drawings.
		Presence and condition of Equipment	- Concrete mixer, and other hand tools

		Presence of Construction Materials on site	- Sand, cement, reinforcement, ordinary poles, and solid precast concrete blocks observed on site
		insurance, performance Bonds	- No clarification made by the contractor
		Program of works	- Program of works available on site. Project behind schedule by approximately one month
	Health and Safety (H&S)	Site Hoarding	- Site hoarding present with a gate for access control
		Personal protection gear	- A good number of workers did not have protective gear while on site
		H&S Signage on site	- No Health and safety sign board, or message placards were observed on site.
		H&S training	- Workers had not undergone on site health and safety trainings on a regular basis
		H&S Personnel on site	- None was noticeable on site
		First Aid Kit on site	- A first aid kit was available on site; however, the contents were old and not fit for use for first aid e.g. the scissors in the kit had rusted.
		Toilet facilities on site	- No onsite facilities observed
		Dining Facilities on site	- No designated area on site
		Clean Drinking Water	- No special provision on site
	Environmental & Social Impact	Displacement and resettlement of Locals	- Land belongs to MUST, therefore no displacement and re-settlement of communities of individuals took place
		Waste disposal	- The site is littered with debris. Debris collected requires disposal as per project environmental impact management plan, if any.
		Water source protection	- There was no water body noticed in the vicinity of the site.
		Protection and against soil erosion	- No signs of land degradation of soil erosion as a result of construction activity were observed
		Dust emission from construction	- Vehicular traffic to the site very low, therefore limited potential of dust emission from construction activity.
		Noise generation & emission	- Limited potential for noise pollution due to the nature of construction activity, machinery and isolated site location.

		Protection of vegetation	- The site adopted for the project did not have prior substantial vegetation cover. Planting new vegetation may be considered
		Stakeholder ownership, benefits and satisfaction	<ul style="list-style-type: none"> - General excitement about the new facilities and the prospective benefits observed among students and university management - Participation in the designs needs assessment and specifications gives the university management a sense of ownership.
		Protection of Neighbouring properties	- No noticeable negative effect of the project on neighbouring properties was observed
		Access routes	- Access and circulation routes not paved, therefore there is potential for soil erosion
		Site Drainage	- Surface water drainage structures not yet constructed, no temporary drainage facility observed onsite
		Usability of the Facility by Persons with disabilities (PWDs)	- PWDs accommodated in the design of the facility by providing ramps to ease access and special toilet facilities for the PWDs
		Gender Parity	- Employment of both female and male workers observed on site.
		HIV/AIDs awareness	<ul style="list-style-type: none"> - Efforts to create awareness among the construction workers not apparent on site. - There are no message signboards
	Quality Control and Assurance	Supervision Activities	<ul style="list-style-type: none"> - The project is directly supervised by the Ministry of Education and Sports - There was no clerk of works on site
		Material testing	- Preparations for material testing were observed onsite. Concrete cubes for concrete strength tests were noticed onsite.
		Condition of completed works	<ul style="list-style-type: none"> - The facility is still under construction - The completed works appear of good standard and sound
		Workmanship	- Generally, appears good, but will require further periodic inspections
		Drawings and specifications	- Copies of drawings available on site and pinned up in the site office for access to site visitors
	Status of Contract	Payments to Contractor	- There was no comment for the contractor's representatives present on
		Progress of works	- 65% completion attained. Project behind schedule.
		Delays	- Project has experienced delays due to variations in scope and some delays in



Figure 26: Multipurpose block under construction at Nagongera Campus

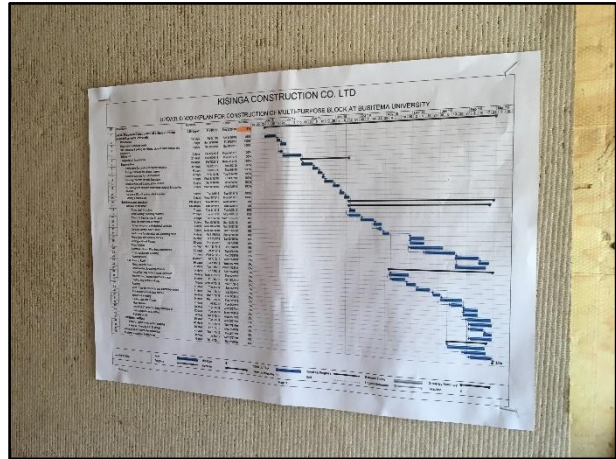


Figure 27: Construction program



Figure 287: First Aid kit: some equipment not fit for first Aid. Notice the rusted pair of scissors



Figure 29: Construction debris piles on site.



Figure 308: Workers carry out works without proposal protective gear, Notice the gentleman is a reflector Jacket donning slippers, operating right next to a timber piece with protruding nails, this constitutes a health and safety risk to the worker.



Figure 31: Debris littered across the site observed. notice the timber pieces with protruding nails. This coupled with the lack of protective gear, constitutes a health and safety Hazard

7.0 RECOMMENDATIONS

- The Ministry of Education and Sports should adopt the CoST Infrastructure Data Standard as a standard for disclosure on projects.
- A project information disclosure platform should be created to improve proactive disclosure of information. The MoES and the beneficiary institutions did not have sufficient information disclosed on the HEST project on their website, yet the website provides a good opportunity for proactive disclosure on projects handled by the Ministry.
- There is need for strict monitoring of Contractors' Health and Safety arrangements for protection of the workforce and visitors to the sites from harm especially for the projects that are still ongoing.
- Some of the beneficiary institutions have equipped workshops for example the metal fabrication workshop at Busitema University. Some of the project items should have been fabricated in these workshops. This gives opportunity for hands-on training of the students and is in line with the government of Uganda Buy Uganda Build Uganda (BUBU) policy.

ANNEX A: Infrastructure Data Standard

Project Phase	Project data	Disclosed Data
Project Information for Proactive Disclosure:		
Project Identification	Project reference number	Project ID: - P-UG-1AD-001 Loan No: - 2100150028093
	Project owner	Government of Uganda
	Sector, subsector	Ministry of Education, Science, Technology and Sports
	Project name	Support to Higher Education Science and Technology (HEST)
	Project Location	Makerere-Kampala, Mbarara Municipality, Nagongera, Busitema, Kihumuro-Mbarara, Buhoma, Muni, Gulu, Lira
	Purpose	Purpose: To contribute to Building Uganda's human capital through support to Higher Education Science and Technology as skills development to respond to market demands and spur productivity. Objective: To improve equitable Access, quality and relevance of skills training and research leading to job creation and self-employment.
	Project description	The HEST Project is an initiative by the Government of Uganda through the Ministry of Education and supported by the Africa Development Fund (ADF) that aims to contribute to building Uganda's human capital skills development capacity. It involves the active participation of public universities and degree awarding tertiary institutions in skills training, at the various levels of higher learning.
Project Preparation	Project Scope (main output)	Makerere University New Works: 1. Central Teaching Facility near CHUSS 2. Central Teaching Facility near COBAMS Rehabilitation Works: 1. College of Engineering Design Art and Technology (CEDAT) 2. College of health sciences (CHS) 3. College of Veterinary Medicine, Animal Resources and Biosecurity (COVAB) 4. College of Education and External Studies

			5. College of Agriculture and Environmental Sciences (CAES) 6. College of Natural Sciences (CONAS)
		Busitema University	<u>New Works:</u> 1. Laboratory and Lecture Block at Main Campus 2. Library Block at main Campus – Phase 1 3. Laboratory Block at Nagongera Campus <u>Renovation Works:</u> 1. Existing Workshop at the Main campus 2. Existing Laboratory Block at Nagongera Campus
		Mbarara University	<u>New Works:</u> 1. Hostel Block at Kihumuro Campus 2. Engineering Workshop at main campus 3. Library Block at Main Campus 4. Multipurpose Laboratory Block for faculty of Applied sciences at Main Campus 5. Incubation Centre at main campus
	Environmental impact	Major Environment and Social Impacts <u>Positive impacts:</u> <ul style="list-style-type: none"> Decongestion of teaching and learning environment leading to better academic performance Reduced incidence of water-borne diseases like Cholera as well as communicable diseases Better management of solar heating in newly constructed facilities Improved laboratories and workshops in the universities providing better environment for training science and Technology. <u>Potential Negative Impacts:</u> <ul style="list-style-type: none"> New construction and rehabilitation of the existing sites will lead to de-vegetation, soil erosion, dust emission and noise Slight risk of pollution of ground water and soil contamination Use of excessive forest resources in construction Debris from construction containing materials like glass, ceramic tiles being dumped on areas reserved as green parks or riparian systems 	

	Land and settlement impact	The construction activities were planned to place on the premises of the beneficiary institutions, therefore, no displacement and re-settlement of communities or individuals was expected.	
	Contact details	Procuring Entity	Ministry of Education, Science, Technology and Sports (MoESTS) Embassy House, Plot 9/11 King George VI way P.O. Box 7063, Kampala, Uganda
		Consultants:	<u>Makerere University:</u> Arch Design Limited Plot 28, Buganda Road P.O. Box 22946, Kampala, Uganda <u>Busitema and Mbarara Universities:</u> HABITAT CONSULTANTS Plot 97, Kira Road. P.O. Box 1306, Kampala, Uganda
		Contractors:	<u>Makerere University:</u> EXCEL Construction Limited Plot 43-45, Republic Road P.O. Box 1203, Jinja Road <u>Busitema University:</u> PRISMA Limited Suite 23, Colline House. P.O. Box 34764, Kampala, Uganda <u>Mbarara University:</u> 1. M/S China Nanjing International Limited Plot M451 Banda, Jinja Road, P.O. Box 2698, Kampala, Uganda 2. EXCEL Construction Limited Plot 43-45, Republic Road P.O. Box 1203, Jinja Road 3. HAPPINESS Enterprise Limited P.O. Box 851, Kabale, Uganda
	Funding sources	African Development Fund Loan and Government of Uganda	
	Project Budget	Makerere University	UA 8,500,000 exclusive of local taxes, which is equivalent to USD 11,990,000 using the exchange rate of 1UA = USD 1.41
		Busitema university	UA 3,790,000 (equivalent to USD 5,343,900 using the exchange rate of 1UA = USD 1.41)
		Mbarara University	<u>Library & Multi-purpose Laboratory at Kihumuro Campus:</u>

			UA 3,390,000 exclusive of local taxes, which is equivalent to USD 4,779,900 using the exchange rate of 1UA = USD 1.41 <u>Incubation Centre at Buhoma:</u> UA 150,000 exclusive of local taxes, which is equivalent to UGX 750,000,000
	Project budget approval date	Loan approval Date – 23 rd November, 2012	
Project Completion	Project status (current)	Makerere University	92% completion as of June 2018
		Busitema University	95% completion as of March 2018
		Mbarara University	Laboratory, Multi-purpose laboratory & Hostel – Completed and handed over Business Incubation Centre – 92% Completion as of June 2018 Hostel at Kihumuro Campus – 33% completion as of June 2018
	Completion cost (projected)	Makerere University	USD 14,617,760.48 as of 11 th July, 2018
		Busitema University	USD 4,165,412.88 as of 22 nd March, 2018
		Mbarara University	Library block and Multi-purpose Laboratory – USD 4,241,771.37 as of 27 th April, 2018
	Completion date (projected)	Makerere University	29 th August, 2017 revised to December 2018
		Busitema University	05 th August, 2017 revised to August, 2018
		Mbarara University	21 st November, 2017 revised to 21 st February, 2018 – works completed Business Incubation Centre – 09 th March, 2018, revised to June 2018
	Scope at completion (projected)	Makerere University	1. Renovation of College of Engineering Design Art & Technology (CEDAT) 2. Renovation of College of Health Sciences (CHS) 3. Renovation of College of Veterinary Medicine, Animal Resources & Biosecurity (COVAB) 4. Renovation College of Education and External sciences 5. Renovation of College of Agriculture and Environmental Sciences (CAES) 6. Renovation of College of Natural Sciences (CoNAS)

			7. All inclusive of associated external works 8. New Central Teaching Facility (near CHUSS) 9. New Central Teaching facility (near CoBAMS) 10. New laboratory block at kabanyoro Campus
		Busitema University	1. Three storey Lecture & Laboratory block at main campus 2. Phase 1- Three storey library & computer block at main campus 3. Renovation of existing workshop at main campus 4. New equipment store at main campus 5. New science laboratory block at Nagongera campus
		Mbarara University	1. Two Level Multipurpose Laboratory Block for faculty of applied sciences 2. Three Level University Library 3. Business incubation centre 4. Girl's hostel at Kihumuro campus
	Reasons for project changes	1. Savings during procurement 2. Additional works requirements	
	Reference to audit and evaluation reports	i. Quarterly progress report (January-March 2018) ii. Aide Memoir (June 2018) iii. Auditor General's report (FY 2016/2017)	
Procurement	Procuring entity	Ministry of Education, Science, Technology and Sports (MoESTS)	
	Procuring entity contact details	Ministry of Education, Science, Technology and Sports (MoESTS) Embassy House, Plot 9/11 King George VI way P.O. Box 7063, Kampala, Uganda	
	Procurement process	Makerere University	<u>Works:</u> Invitation: Advertisement Sourcing: – International Competitive Bidding (ICB) with prequalification Tender Document: Evaluation & Selection: - Technical Compliance Selection (TCS) <u>Services:</u> Sourcing: – International Competitive Bidding (ICB) with prequalification

			Evaluation: - Quality Cost Based (QCBS)
		Busitema University	<u>Works:</u> Sourcing: – International Competitive Bidding (ICB) without prequalification Evaluation: - Technical Compliance Selection (TCS) <u>Services:</u> Sourcing: – International Competitive Bidding (ICB) with prequalification Evaluation: - Quality Cost Based (QCBS)
		Mbarara University	<u>Business Incubation Centre:</u> <u>Works:</u> Sourcing: – National Competitive Bidding (NCB) without prequalification Evaluation: - Technical Compliance Selection (TCS) <u>Services:</u> Sourcing: – International Competitive Bidding (ICB) with prequalification Evaluation: - Quality Cost Bases (QCBS) <u>Library block & Multi-purpose Laboratory:</u> <u>Works:</u> Sourcing: – International Competitive Bidding (ICB) with prequalification Evaluation: - Technical Compliance Selection (TCS) <u>Services:</u> Sourcing: – International Competitive Bidding (ICB) with prequalification Evaluation: - Quality Cost Based (QCBS) <u>Hostel at Kihumuro Campus:</u> <i>not disclosed</i>
	Contract type	Makerere University	Works - Admeasurement Contract Services – Lump sum Contract
		Busitema University	Works - Admeasurement Contract Services – Lump sum Contract
		Mbarara University	Works - Admeasurement Contract Services – Lump sum Contract
	Contract status (current)	Makerere University	92% completion as of June 2018
		Busitema University	95% completion as of March 2018
		Mbarara University	Laboratory, Multi-purpose laboratory &

			Hostel – Completed and handed over Business Incubation Centre – 92% Completion as of June 2018 Hostel at Kihumuro Campus – 33% completion as of June 2018
	Number of firms tendering	Makerere University	Works- 6 firms Services – 6 firms shortlisted, 2 submitted bids
		Busitema University	Works- 13 firms Services – 6 firms shortlisted, 5 submitted bids
		Mbarara University	Works- Library Block & Multipurpose Laboratory - 16 firms Business Incubation Centre – 9 firms Hostel at Kihumuro Campus - Services – 6 firms shortlisted, 5 submitted bids
	Cost estimate	Makerere University	UA 8,500,000 exclusive of local taxes, which is equivalent to USD 11,990,000 using the exchange rate of 1UA = USD 1.41
		Busitema University	UA 3,790,000 (equivalent to USD 5,343,900 using the exchange rate of 1UA = USD 1.41)
		Mbarara University	<u>Library & Multi-purpose Laboratory at Kihumuro Campus:</u> UA 3,390,000 exclusive of local taxes, which is equivalent to USD 4,779,900 using the exchange rate of 1UA = USD 1.41 <u>Incubation Centre at Buhoma:</u> UA 150,000 exclusive of local taxes, which is equivalent to UGX 750,000,000
	Contract administration entity	Ministry of Education, Science, Technology and Sports (MoESTS) Embassy House, Plot 9/11 King George VI way P.O. Box 7063, Kampala, Uganda	
	Contract title	Makerere University	Construction of 2No. Central teaching facilities and Rehabilitation of Laboratories at Six Colleges.
		Busitema University	Proposed Construction of One (1) Laboratory & lecture Block, One (1) Library block and renovation of existing workshops for Busitema University at the Main Campus, and one (1) new

			laboratory block and renovation of existing Laboratory block at Nagongera Campus.
		Mbarara University	<p>Proposed construction of One (1) Library block and one (1) Multipurpose laboratory block for Faculty of applied sciences Mbarara University of Science and Technology (MUST) at Kihumuro Campus</p> <p>Proposed Construction of a Business Incubation Centre at Mbarara University of science and Technology (MUST)</p>
	Contract firm(s)	Makerere University	<p><u>Consultant:</u> Arch Design Limited</p> <p><u>Contractor:</u> EXCEL Construction Limited</p>
		Busitema University	<p><u>Consultant:</u> HABITAT Consultants</p> <p><u>Contractor:</u> PRISMA Limited</p>
		Mbarara University	<p><u>Consultant:</u> HABITAT Consultants</p> <p><u>Contractors:</u></p> <ol style="list-style-type: none"> 1. M/S China Nanjing International Limited (Hostel & Engineering Workshop) 2. EXCEL Construction Limited (Library Block & Multipurpose Laboratory) 3. Happiness Enterprise Limited (Incubation Centre at Kihumuro Campus)
	Contract price	Makerere University	<p><u>Works:</u> USD 12,280,109.97 (VAT inclusive) i.e. USD 10,915,347.44 by African Development Fund and VAT of 1,964,762.54 by Government of Uganda</p> <p><u>Services:</u> USD 436,157.5 (inclusive of VAT)</p>
		Busitema University	<p><u>Works:</u> USD 5,421,207.05 inclusive of VAT</p> <p><u>Services:</u> USD 337,067 including VAT – includes MUST</p>

		Mbarara University	<p><u>Works:</u> Hostel at MUST & Workshop at Kyambogo – UGX 8,456,363,538 paid by ADF, Contract had VAT exemption</p> <p>Library Block & Multi-purpose Laboratory – USD 4,801,076.74 including VAT</p> <p>Business Incubation Centre – UGX 1,106,603,939 including VAT</p> <p><u>Services:</u> USD 337,067 including VAT- includes Busitema</p>
	Contract scope of work	Makerere University	<p><u>New Works:</u></p> <ol style="list-style-type: none"> 1. Construction of Central Teaching Facility near CHUSS 2. Construction of Central Teaching Facility near COBAMS <p><u>Rehabilitation Works:</u></p> <ol style="list-style-type: none"> 1. College of Engineering Design Art and Technology (CEDAT) 2. College of health sciences (CHS) 3. College of Veterinary Medicine, Animal Resources and Biosecurity (COVAB) 4. College of Education and External Studies 5. College of Agriculture and Environmental Sciences (CAES) 6. College of Natural Sciences (CONAS)
		Busitema University	<p><u>New Works:</u></p> <ol style="list-style-type: none"> 1. Construction of Laboratory and Lecture Block at Main Campus 2. Construction Library Block at main Campus – Phase 1 3. Construction of Laboratory Block at Nagongera Campus <p><u>Renovation Works:</u></p> <ol style="list-style-type: none"> 1. Existing Workshop at the Main campus 2. Existing Laboratory Block at Nagongera Campus
		Mbarara University	<p><u>New Works:</u></p> <ol style="list-style-type: none"> 1. Hostel Block at Kihumuro Campus 2. Engineering Workshop at main campus 3. Library Block at Main Campus

			4. Multipurpose Laboratory Block for faculty of Applied sciences at Main Campus 5. Incubation Centre at main campus
	Contract start date	Makerere University	Contract Signing: 16 th December, 2015, Commencement 2 weeks after contract signing
		Busitema University	Contract Signing: 31 st December, 2016, Commencement 2 weeks after contract signing
		Mbarara University	<u>Hostel (MUST) & Engineering workshop (Kyambogo University):</u> Contract Signing: 15 th December, 2017, Commencement 2 weeks after contract signing <u>Library Block & Multipurpose Laboratory:</u> Contract Signing: 26 th April, 2016, Commencement 2 weeks after contract signing
	Contract duration	Makerere University	18 Calendar Months plus 12 Calendar Months Defects Liability Period
		Busitema University	18 Calendar Months plus 12 Calendar Months Defects Liability Period
		Mbarara University	<u>Hostel (MUST) & Engineering workshop (Kyambogo University):</u> – 9 Calendar Months Plus 12 Calendar Months Defects Liability Period <u>Library Block & Multi-purpose Laboratory</u> 18 Calendar Months plus 12 Calendar Months Defects Liability Period <u>Business Incubation Centre</u> – 6 Calendar Months plus 12 Calendar Months Defects Liability Period
Calendar Implementation	Variation to contract price	Makerere University	Addendum No.1 USD 1,227,423.66 Overruns USD 289,290.58
		Busitema University	NIL (June, 2018)
		Mbarara University	NIL (June, 2018)
	Escalation of contract price	Makerere University	USD 289,290.58
		Busitema University	NIL
		Mbarara University	NIL
	Variation to contract duration	Makerere University	10 Calendar Months (Quarterly Progress Report, March 2018)
		Busitema University	6 Calendar Months (Quarterly Progress

			Report, March 2018)
		Mbarara University	Library & Multipurpose block - 4 months (March 2018)
			Business Incubation Centre – NIL (Quarterly Progress Report, March 2018)
	Variation to contract scope	Makerere University	New Laboratory at Kabanyoro Campus
		Busitema University	Additional works
		Mbarara University	Additional works
	Reasons for price changes	Makerere University	Additional Works and variations
		Busitema University	Additional Works and variations
		Mbarara University	Additional Works and variations
	Reasons for scope and duration changes	Makerere University	Additional Works and Variations
		Busitema University	Additional works and variations
		Mbarara University	Additional works and Variations

Table 2: Project and Contract Information for disclosure upon request

Identification and Preparation	Multi-year programme & Budget	Not yet disclosed
	Project brief or Feasibility study	Project Appraisal report by ADF
	Environmental and social impact assessment	<p>Environmental management including adequate water and sanitation, waste handling and greening of critical learning system. The project is classified as category II because there are no major environment effects that caused by the expansion of the tertiary institutions and construction of new institutions.</p> <p>The institutions will have their learning environment improved through the rehabilitation and expansion of learning facilities, and demonstration or production units which work as incubation centres for graduates.</p> <p>Major Environment and Social Impacts</p> <p><u>Positive impacts:</u></p> <ul style="list-style-type: none"> • Decongestion of teaching and learning environment leading to better academic performance • Reduced incidence of water-borne diseases like Cholera as well as communicable diseases • Better management of solar heating in newly constructed facilities • Improved laboratories and workshops in the universities providing better environment for training science and Technology. <p><u>Potential Negative Impacts:</u></p> <ul style="list-style-type: none"> • New construction and rehabilitation of the existing sites

		<p>will lead to de-vegetation, soil erosion, dust emission and noise</p> <ul style="list-style-type: none"> • Slight risk of pollution of ground water and soil contamination • Use of excessive forest resources in construction • Debris from construction containing materials like glass, ceramic tiles being dumped on areas reserved as green parks or riparian systems <p>Enhancement and Mitigation program</p> <ul style="list-style-type: none"> • Improved sanitation facilities through the overhauling of sewerage and sewage treatment systems on the campuses for proper disposal of solid waste • Overhauling and expansion of water supply systems to provide safe drinking water; to avoid contamination of water sources, the water points will be designed and constructed in such a way as to ensure proper drainage of waste water so as to prevent any possibility of water stagnation, which may pose the risk of ground water contamination and development of breeding grounds for mosquitoes, flies and other insects. • Waste collection and disposal or disposal systems on campus be improved • Existing trees and greenery on the project sites will be preserved to protect the soils, provide shade and serve as wind shields • Improved landscaping to be adopted after construction and new vegetation and trees planted • Ensure that contractors dumping waste and debris from sites do so according to NEMA guidelines • Use of non-indigenous forest resource materials in construction, furniture and construction scaffolding to be adopted. • Support enhancement to agricultural production units which would enhance food security and new methods of farming that preserve fragile environment and produce higher efficiency per acre of land. This will conserve more forests likely to be destroyed in favour of poorly managed agricultural practices • ESMP to be adopted as part of the maintenance tools for the physical facilities and equipment. <p><u>Monitoring Program and Complementary initiatives:</u></p> <ul style="list-style-type: none"> • The BIs and the MoES project coordination Unit will follow up all ESMP matters in both the new and existing universities • Bank supervision missions to follow up the
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		<p>implementation of the ESMP</p> <ul style="list-style-type: none"> Works supervision Consultants will be charged with responsibility of ensuring that the ESMP is adhered by Contractors <p><u>Public Consultation and Disclosure requirements</u></p> <ul style="list-style-type: none"> The PCU guided by MoES and the BIs will occasionally organise events to publicize various stages of the ESMP The project is designed to operate in a participatory manner where all activities will be implemented in close collaboration with all stakeholders to increase their sense of ownership of the improved facilities to be provided under the project. <p><u>Gender Parity:</u></p> <ul style="list-style-type: none"> Support gender mainstreaming, that will enhance participation of women in STI in the universities to achieve gender balance of at least 40% women in science base programmes and technology in which women are few Emphasize affirmative action Support to staff development scholarships ration of at least 40% women to be maintained in favour of development of women candidates Female students given special consideration under entrepreneurship centres <p><u>HIV/AIDS Activities:</u></p> <ul style="list-style-type: none"> Support activities with maximum impact on the reduction of HIV/AIDS especially among tertiary level students. Core activities include; provision of essential supplies, counselling activities, awareness creation materials, no student is denied access through exclusion as a victim, improved sanitation and student health, nursing equipment. <p><u>Special Needs Activities</u></p> <ul style="list-style-type: none"> Fund facilities and special bridging programmes that enable disabled and other vulnerable groups with special needs to participate in STI Support to students with disabilities to participate in HEST training through supportive equipment and proper adoption of infrastructure, learning and skill development tools.
	Resettlement and compensation plan	The construction activities were planned to place on the premises of the beneficiary institutions, therefore, no displacement and re-settlement of communities or individuals was expected.

	Project officials and roles	Not yet disclosed
	Financial agreement	<p>Financing of the entire foreign currency cost and part of the local currency cost of the project. Loan amounting to UA 67,000,000 paid by African Development Bank and UA 7,440,000 paid by Government of Uganda and beneficiary institutions.</p> <p>The loan is to be repaid over a period of 40 years after 10year grace period commencing from the date of agreement at 1% per annum from 11-20th Year and 3% per annum thereafter.</p> <p>0.75% per annum service charge on the principal amount disbursed and outstanding from time to time</p> <p>Commitment Charge: 0.5% per annum on the undisbursed portion of the loan which shall begin to accrue 120days after the agreement date.</p>
	Procurement plan	<p><u>Good and works:</u></p> <p>International competitive bidding (ICB), by the use of the ADB standard bidding document</p> <ul style="list-style-type: none"> • Goods < UA 300,000 – National Competitive Bidding (NCB), goods for project management through shopping. • Works > UA 6,500,000 and above – International Competitive Bidding (ICB) with prequalification of contractors • Value < UA 6,500,000 International Competitive Bidding without prequalification • ICB for Construction & rehabilitation of buildings for Makerere, Kyambogo, Mbarara, Gulu, Busitema universities as well as Makerere Business School • Works < UA 3,820,000 National Competitive Bidding using National standard bidding documents (NSBDs) <p>Works include,</p> <ul style="list-style-type: none"> • Construction of production/incubation centres in all tertiary institutions • Construction of buildings in Muni University and completion of teaching and office complex for UMI • Works for rehabilitation of project management offices shall be procured through shopping/ <p>NCB documents may be used taking into account changes</p>

		there to spelled out in the Loan Agreement	
		<u>Services:</u> <ul style="list-style-type: none"> • Procurement done in accordance with the Banks rules and procedures for the use of consultants (May 2008, rev July 2012) • Consulting services for design, BoQ tender and supervision – Shortlist and Quality and Cost Based selection (QCBS) • Review, formulation and evaluation of the HESP and SIs on Gender, HIV/AIDs, special needs- procurement by Shortlist and QCBS 	
	Project approval decision	23 rd November, 2012	
Completion	Implementation progress reports	i. Quarterly progress report (January-March 2018)	
	Budget amendment decision	Aid Memoir June 2018	
	Project completion report	Not yet prepared by consultants	
	Project evaluation report	Aid memoir for supervision mission by ADF	
	Technical audit reports	Technical Audits not yet carried out	
	Financial audit reports	Auditor General's report (FY 2016/2017)	
Procurement	Contract officials and roles	Not yet disclosed	
	Procurement method	Makerere University	<u>Works:</u> Sourcing: – International Competitive Bidding (ICB) with prequalification Evaluation: - Technical Compliance Selection (TCS) <u>Services:</u> Sourcing: – International Competitive Bidding (ICB) with prequalification Evaluation: - Quality Cost Based (QCBS)

		Busitema University	<p><u>Works:</u></p> <p>Sourcing: – International Competitive Bidding (ICB) without prequalification</p> <p>Evaluation: - Technical Compliance Selection (TCS)</p> <p><u>Services:</u></p> <p>Sourcing: – International Competitive Bidding (ICB) with prequalification</p> <p>Evaluation: - Quality Cost Based (QCBS)</p>
		Mbarara University	<p><u>Business Incubation Centre:</u></p> <p><u>Works:</u></p> <p>Sourcing: – National Competitive Bidding (NCB) without prequalification</p> <p>Evaluation: - Technical Compliance Selection (TCS)</p> <p><u>Services:</u></p> <p>Sourcing: – International Competitive Bidding (ICB) with prequalification</p> <p>Evaluation: - Quality Cost Bases (QCBS)</p> <p><u>Library block & Multi-purpose Laboratory:</u></p> <p><u>Works:</u></p> <p>Sourcing: – International Competitive Bidding (ICB) with prequalification</p> <p>Evaluation: - Technical Compliance Selection (TCS)</p> <p><u>Services:</u></p> <p>Sourcing: – International Competitive Bidding (ICB) with prequalification</p> <p>Evaluation: - Quality Cost Based (QCBS)</p>
	Tender documents	Disclosed	
	Tender evaluation results	Disclosed	
	Project design report	Not available at the Project Coordination Unit office	
Contract	Contract agreement and Conditions.	Disclosed	
	Registration and ownership of firms	Disclosed	

	Specifications and drawings	Disclosed
Implementation	List of variations, changes, amendments	Disclosed
	List of escalation approvals	Disclosed
	Quality assurance reports	Disclosed not disclosed for Busitema and MUST
	Disbursement records or payment certificates	Disclosed
	Contract amendments	Makerere University – Addendum No.1 – Construction of new laboratory at Kabanyoro Campus