

**REPORT ON THE CONTRACT AUDITS INTO THE
CONSTRUCTION OF MULTIPURPOSE OFFICE BLOCK -
PHASE 3 AND BEAUTIFICATION & LANDSCAPING
WORKS - PHASE 2**

LAW DEVELOPMENT CENTRE

JULY 2026

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ACRONYMS AND ABBREVIATIONS

AO	Accounting Officer
BOQ	Bills of Quantities
ESHS	Environmental, Social, Health and Safety
ESMP	Environmental and Social Management Plan
GCC	General Conditions of Contract
LDC	Law Development Centre
M&E	Mechanical and Electrical works
PDE	Procuring and Disposing Entity
PPC	Project Preparation Committee
PPDA	Public Procurement and Disposal of Public Assets Authority
RCC	Reinforced Cement Concrete
UGX	Uganda Shillings
VAT	Value Added Tax
WHT	Withholding Tax

EXECUTIVE SUMMARY

CHAPTER 1: INTRODUCTION

1.1 Background

The Public Procurement and Disposal of Public Assets Authority (PPDA) herein referred to as the Authority, is the regulatory body for public procurement and disposal in Uganda. It was established through an Act of Parliament in 2003. The overall objective of the PPDA is to ensure application of fair, competitive, transparent, non-discriminatory and value for money public procurement and disposal standards and practices in Uganda. PPDA is mandated under Section 8 (j) of the PPDA Act Cap. 205 to conduct bid preparatory audits, contract audits and performance audits on Procuring and Disposing Entities. In light of the above, the Authority conducted two contract audits at Law Development Centre (LDC).

1.2 Objectives of the Authority

The objectives of the Authority are enshrined under Section 7 of the PPDA Act Cap. 205 and these are to:

- i. Ensure the application of fair, competitive, transparent, non-discriminatory and value for money procurement and disposal standards and practices;
- ii. Advise Government, local governments and other Procuring and Disposing Entities on procurement and disposal policies, systems and practices and where necessary, on their harmonisation;
- iii. Set standards for the public procurement and disposal systems in Uganda;
- iv. Monitor compliance of Procuring and Disposing Entities; and
- v. Build procurement and disposal capacity in Uganda.

1.3 Objectives of the Audits

The objectives of the audits were to:

- i. Establish the level of achievement of value for money during contract implementation;
- ii. Assess the overall management of the projects in accordance with each party's obligations;
- iii. Assess the adherence to Environmental, Social, Health and Safety (ESHS) requirements; and
- iv. Assess adherence to implementation of local content provisions.

1.4 Audit Scope

The contracts audited are indicated in Table 1 below:

Table 1: Contracts Audited

Contracts	Value (UGX)
Construction of Multipurpose Office Block-Phase 3	1,119,273,572
Beautification & Landscaping Works Phase 2	1,042,443,270

1.5 Methodology

The methodology entailed the following:

- i. On 27th August 2025, the Entity was notified about the upcoming contract audits. An audit launch meeting between the Authority and the Entity's officials was held on 9th September 2025.
- ii. From 10th September 2025 to 22nd September 2025, the Authority was involved in document review of the two projects to ascertain the status of implementation of the contracts. This involved a review of the contract documents, contracting and contract management documentation.
- iii. Interviews were held with key stakeholders at the Entity which was necessary in obtaining crucial information about the status of implementation of the two contracts.
- iv. The Authority carried out physical verification to establish the level of effectiveness in the delivery of the two contracts.
- v. On completion of data collection, the Audit Manager reviewed the working papers for completeness. The working papers contain a detailed chronology of findings on the two contracts. The audit report presents the key findings, recommendations and conclusions arising from the audit.
- vi. The Authority prepared the Management Letter, which was issued to the Entity on 10th November 2025 with a request to submit a management response by 17th November 2025.
- vii. The management response was submitted by the Entity on 2nd December 2025.

1.6 Key Findings

- i. **Lack of Monthly Site Meeting Minutes:** The Authority noted that minutes of monthly site meetings were not kept on file in the construction of Multipurpose Office Block Phase 3 and Beautification & Landscaping Works Phase 2 contrary to Section 44 (1) of the PPDA Act Cap. 205 which provides that a Procuring and Disposing Entity shall maintain records on its procurement and disposal proceedings for a period of seven years and Regulation 52 (3) (a) (vii) of the PPDA (Contracts) Regulations 2023 which provides that a Contract Manager shall ascertain that all contract management records are kept and archived as required.
- ii. **Infrequent Submission of Monthly Progress Reports by the Contract Manager:** The Authority noted that at the time of audit on 15th September 2025, the Contract Manager had submitted progress reports for the months of May 2025 and June 2025 for the construction of Multipurpose Office Block Phase 3 and Beautification & Landscaping Works Phase 2. The monthly progress reports for July and August 2025 were not kept on file contrary to Regulation 52(3) (g) of the PPDA (Contracts) Regulations 2023 which requires the Contract Manager to submit monthly reports on the progress of the contract to the Accounting Officer and to the Procurement and Disposal Unit.
- iii. **Failure to Provide Insurance Cover:** The Authority noted that whereas GCC 18.1 of the Special Conditions of the Contract required provision of insurance covers by the Contractor in the Beautification & Landscaping Works Phase 2, the Contractor did not provide the insurance covers.

1.7 Recommendations

- i. The Accounting Officer should task the Contract Managers to ensure that all records pertaining to contract management are kept on the contract management files in accordance with Regulation 52 (3) (a) (vii) of the PPDA (Contracts) Regulations 2023 and Section 44 of the PPDA Act Cap 205.
- ii. The Accounting Officer should task Contract Managers to always submit monthly progress reports in accordance with Regulation 52(3) (g) of the PPDA (Contracts) Regulations 2023.
- iii. Contract Managers should in future ensure that contractors submit insurance covers in accordance with the Special Conditions of the Contract.

1.8 Conclusion

The construction of a Multipurpose Office Block Phase 3 and Beautification & Landscaping Works Phase 2 were ahead of schedule with 95% and 94% physical progress respectively as at 15th September 2025. The excellent performance regarding timely completion of the project was attributed to the close supervision by the Project Preparation Committee and timely payments of the Contractors' invoices.

CHAPTER 2: AUDIT FINDINGS AND RECOMMENDATIONS

2.1 CONSTRUCTION OF MULTIPURPOSE OFFICE BLOCK PHASE 3

Background

The Law Development Centre (LDC) received funding from the Government of Uganda towards the cost of the Law Development Centre Infrastructure Development Project. The construction of the multi-purpose storeyed building project is aimed at improving the teaching and practice-oriented learning environment, supported by adequate and appropriate modern office accommodation for teaching and non - teaching staff thus improved supervision and fulfilment of the mandate and mission of the Centre. The Entity planned to construct three blocks with a total area of 12,988.8m² comprising of ; Block A: 1,912.2 m² - Administrative offices for non-teaching staff, Block B: 8,140.6 m² - Lecture Halls, Reading Areas, Libraries, and Block C: 2,936 m² - Administrative offices for teaching staff. The project is implemented in a series of phases depending on the Entity's budget and allocation by the Ministry of Finance, Planning and Economic Development. So far three phases of the project works have been implemented, and the overall physical progress of the whole project is estimated at 20%.

Phase 1 comprised construction of the substructure works for Block B. The Contractor was Alliance Technical Services Ltd, while Oubuntu Consulting Ltd supervised the works. The works began in July 2019 and was concluded in October 2020. The scope of works entailed; demolition of existing buildings (Accounts and Stores blocks), service relocation, construction of foundations for Block B, and retaining walls for block B & C.

Phase 2 comprised construction of superstructure works for Block B. The Contractor was Seyani Brothers & Co (U) Ltd, while Oubuntu Consulting Ltd supervised the works. The works included construction of the Reinforced Cement Concrete (RCC) frameworks, i.e. casting of columns, beams and slabs for ground floor and first floor, and Mechanical & Electrical (M&E) first fix on the two floors for Block B.

Phase 3 comprised construction of substructure works for Block C. The scope of the works comprised construction of RC-Reinforced Concrete on Block C building involved; Sub-structure (foundation works, RC columns and Basement floor slab), super structure, RC frame construction (columns and beams from basement level upto lower ground level), slabs construction for lower ground, Staircase and elevator/lift shaft, and Mechanical and Electrical first fix installation. The Contractor was Tempar Construction Ltd while Green Cod Ltd supervised the works. The estimated cost was UGX 1,125,976,870 and the contracted cost was UGX 1,119,273,572. The contract summary is detailed in Table 2 below:

Table 2: Contract Summary

Procurement Method	Open Domestic Bidding
Reference Number	LDC/WRKS/2024-2025/00057
Contract Amount	UGX 1,119,273,572
Contractor	Tempar Construction Ltd
Contract Signature Date	29 th April 2025
Construction Start Date	29 th April 2025

Project Completion Date	29 th October 2025
Construction Period	183 days
Construction Days Elapsed to date	124 days
Percentage of Time Elapsed	68.31% of contract duration
Overall Physical Work Progress	95%
Advance Payment	Not applicable
Gross work valued	UGX 1,054,814,455 (WHT & VAT inclusive)
Net Amount Paid to Contractor to date	UGX 1,007,347,214
Amount not yet Paid	UGX 111,926,358
Cost - wise progress	90%
Contract Manager	Doreen Namutamba
Date of Contract Audit	10 th September 2025

The Authority noted the following exceptions:

1. Infrequent Submission of Monthly Progress Reports by the Contract Manager

Regulation 52(3) (g) of the PPDA (Contracts) Regulations 2023 requires the Contract Manager to submit monthly reports on the progress of the contract to the Accounting Officer and to the Procurement and Disposal Unit. The Authority noted that at the time of audit on 15th September 2025, the Contract Manager had submitted progress reports for the months of May 2025 and June 2025. However, the monthly reports for July and August 2025 were not on file.

Implications

- Infrequent reporting denies the Accounting Officer and the Entity key information on the project progress.
- This also reflects infrequency of site meetings, the basis upon which progress reports are issued.

Management Response

We recognize the importance of timely submission of monthly reports. We will implement a formal reporting timetable and reminders to ensure the Contract Manager submits reports promptly each month. Additionally, we will monitor and review the submission process regularly to maintain compliance.

Recommendation

The Accounting Officer should task the Contract Manager to submit monthly progress reports in accordance with Regulation 52(3) (g) of the PPDA (Contracts) Regulations 2023.

2. Lack of Monthly Site Meeting Minutes

Regulation 52 (3) (a) (vii) of the PPDA (Contracts) Regulations 2023 provides that a Contract Manager shall ascertain that all contract management records are kept and archived as required. Section 44 (1) of the PPDA Act Cap 205 provides that a Procuring and Disposing Entity shall maintain records on its procurement and disposal proceedings for a period of seven years. Contrary to the above provisions, the Authority noted that minutes of monthly site meetings were not kept on file.

Implication

Failure to keep all records pertaining to the contract management process denies the Entity sufficient information about the project implementation process and could affect contract monitoring.

Management Response

We acknowledge the finding regarding the lack of monthly site meetings. To address this, we will establish a schedule for regular monthly site meetings starting immediately. Minutes of these meetings will be documented and maintained as part of our project records to ensure better communication, oversight and compliance.

Recommendation

The Accounting Officer should task the Contract Manager to ensure that all records pertaining to contract management are kept on the contract management file in accordance with Regulation 52 (3) (a) (vii) of the PPDA (Contracts) Regulations 2023 and Section 44 of the PPDA Act Cap 205.

Conclusion

From the findings of the contract audit, the Construction of Multipurpose Office Block Phase 3 at LDC was ahead of schedule with physical progress at 95% as at 15th September 2025 signifying 54 days ahead of time. This excellent performance regarding timely completion of the project was partially attributed to close supervision by the Project Preparation Committee and timely payments of the Contractor's invoices.

Physical Verification



Columns and beams from basement level up to lower ground level



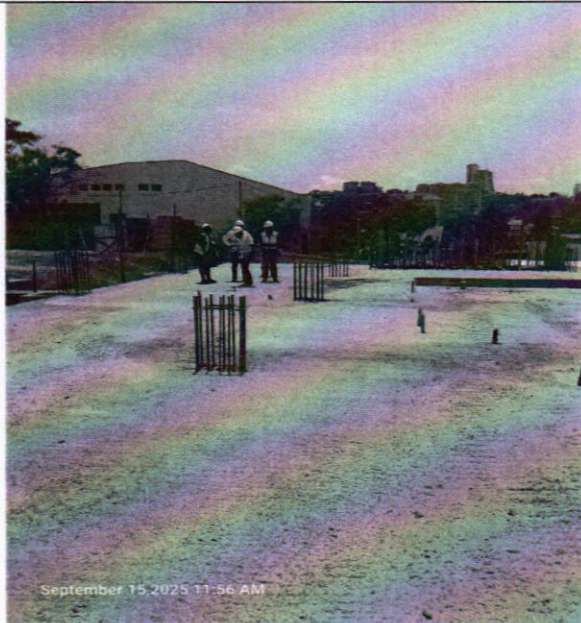
The site was hoarded and access restricted



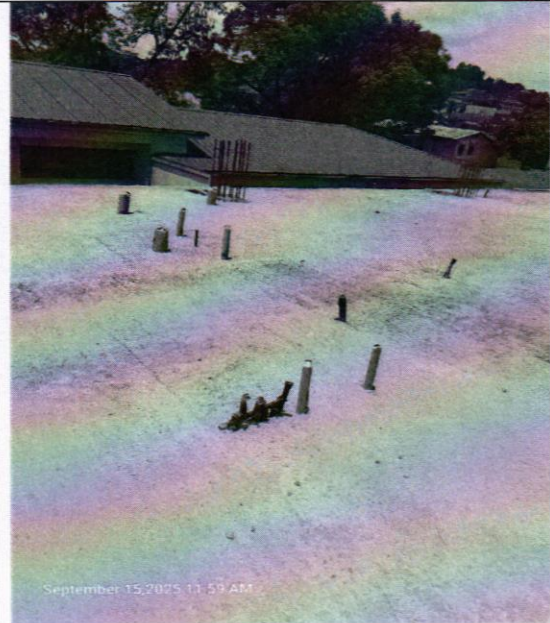
Columns and beams from basement level up to lower ground level



Staircase for the fire escape at the back side of the building



Completed suspended slab for the lower ground level



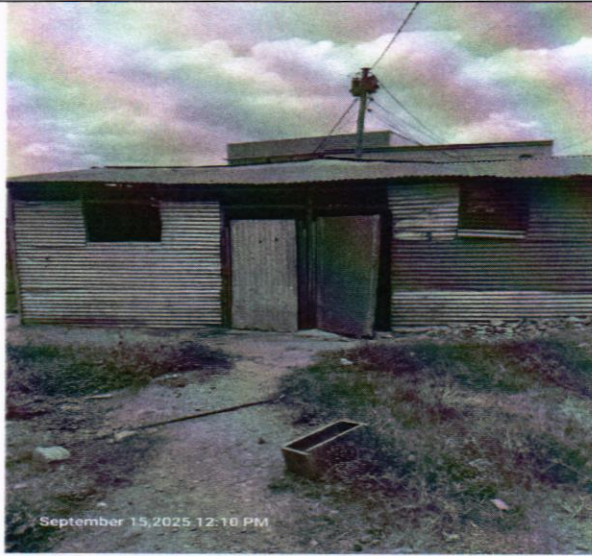
Mechanical and Electrical first fix installations



Staircase for the front side of the buliding



Elevator/Lift Shaft



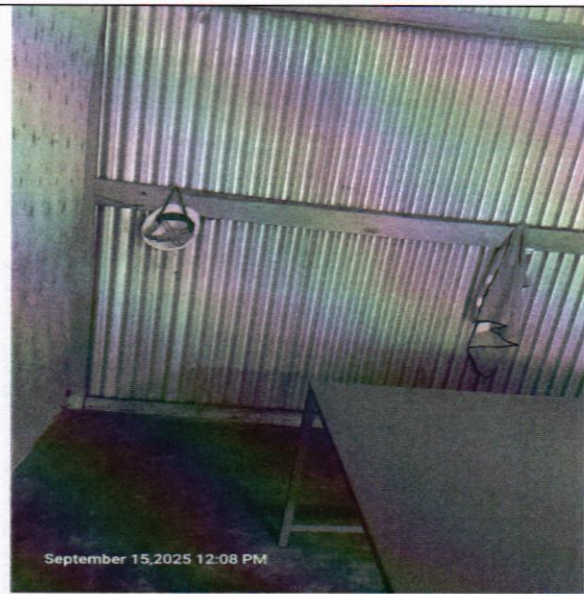
Site kitchen resting room for workers



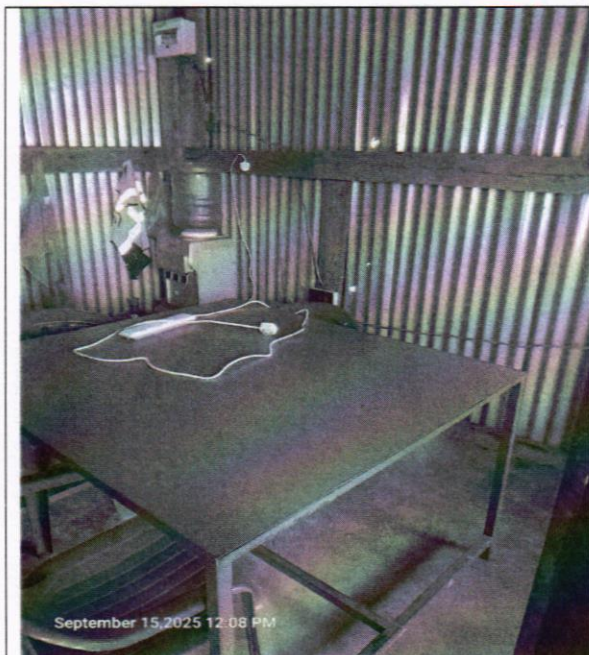
Site office structure included space for the Contractor's office, Consultant's office and the meeting room



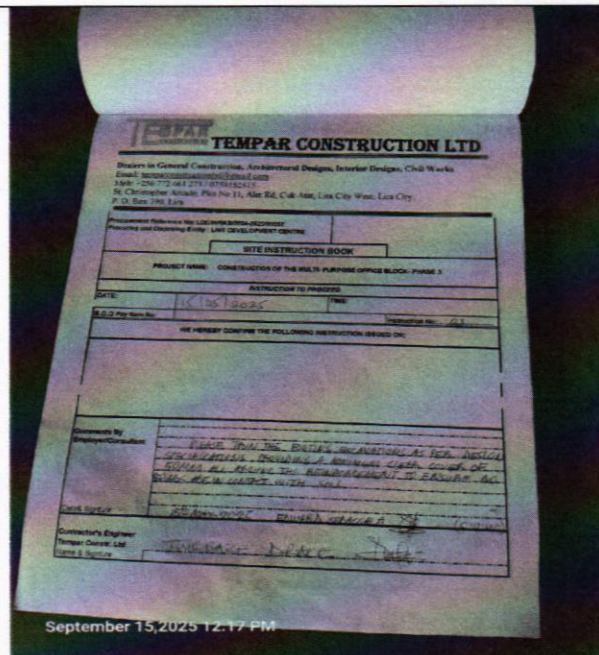
Inside the site meeting room and provision for storage of PPEs



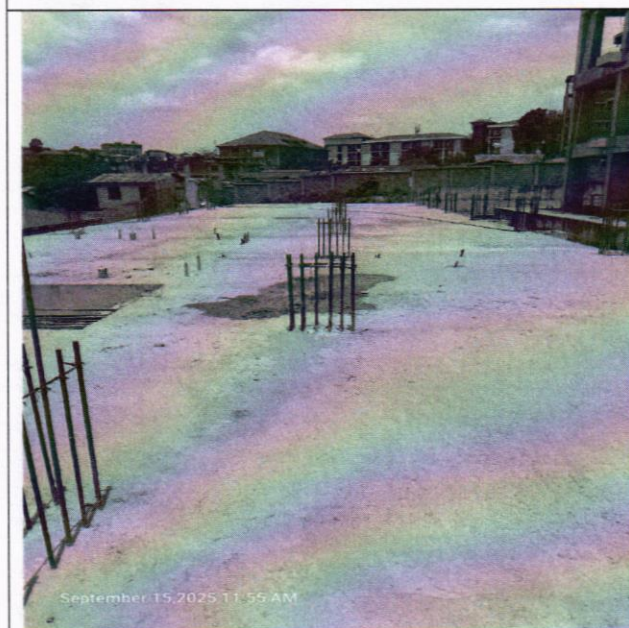
Meeting room



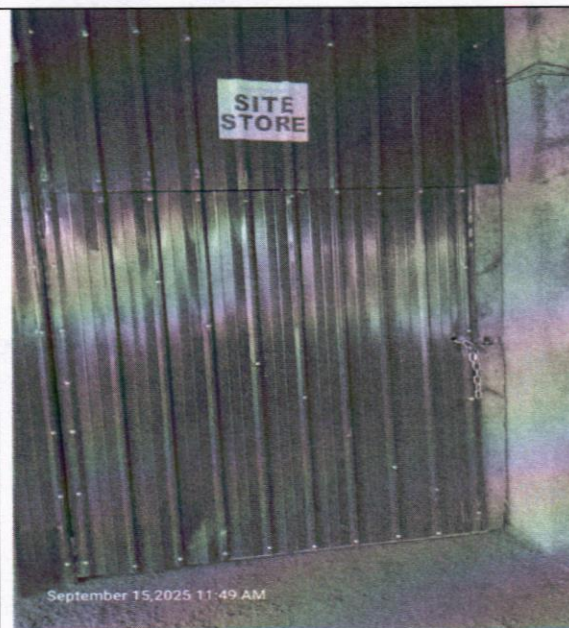
There was provision for drinking water at the site office



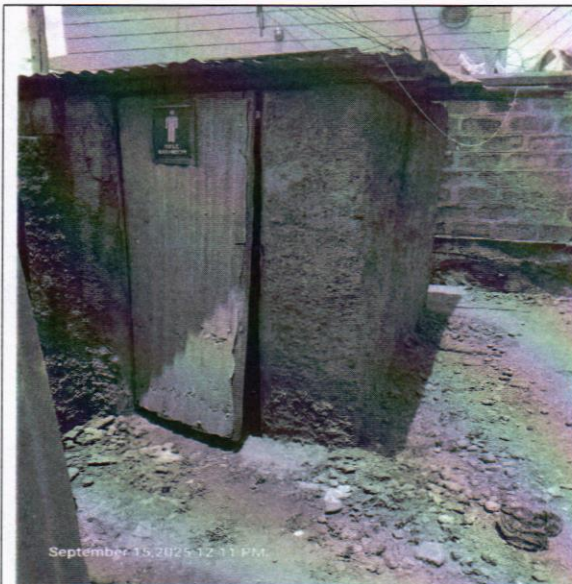
Site instruction book at the site office



Completed suspended slab for the first floor



Site store for storage of selected construction materials and tools



Toilet/washing facilities for males were distinct and separate from those of females



Toilet/washing facilities for males were distinct and separate from those of females



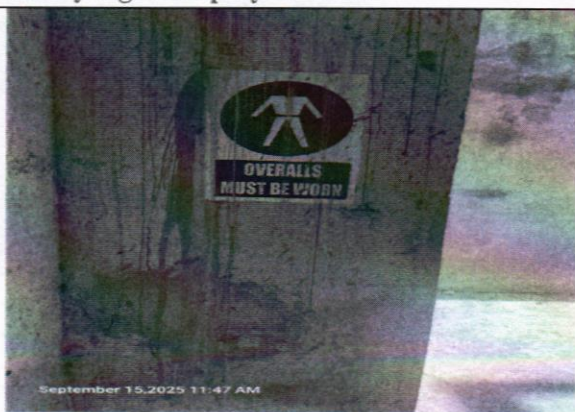
Wash basin provided at site for handwashing



Safety signs displayed at site



Safety signs displayed at site



Safety signs displayed at site

2.2 BEAUTIFICATION & LANDSCAPING WORKS PHASE 2

Background

The Beautification and Landscaping Project was conceived under LDC's strategic objective of modernizing and improving its physical infrastructure to align with institutional growth and enhance the academic environment. The project was aimed at enhancement of institutional aesthetics through creating a modern, green and organized campus outlook, improved accessibility. The project also aimed at improving safety by constructing paved parking areas, access roads, drainage and safety guardrails. It was also to improve environmental management through sustainable landscaping, erosion control and stormwater drainage systems as well as promotion of wellness and recreation by delivering standard outdoor sports facilities for training, recreation and social cohesion. It was also to improve the institutional image and stakeholder satisfaction by showcasing LDC as a modern centre of excellence.

Phase 1 of Beautification and Landscaping works included; paving of the main administration parking, asphalt/tarmacking of the road from the main gate to the main administration building, drainage works extending from the main gate to the furthest end of the field, earthworks and landscaping in the fields behind the main administration building from the main gate towards the staff parking in front of the administration building and building of gazebos for students' self-reading and discussions. The works started in April 2024 and was completed in June 2024 by Trace Mark (U) Ltd.

Phase 2 entailed additional beautification and landscaping works and comprised of stone pitching to strengthen embankments and prevent erosion, installation of guardrails for safety along sloping and traffic-prone sections, grass paving for eco-friendly and durable surfaces, completion of outdoor sports facilities: volleyball, football, netball, and basketball courts, and grass planting in the football and netball courts. The estimated cost was UGX 1,050,039,520 and the contracted cost was UGX 1,042,443,270. The contract summary is detailed in Table 4 below:

Table 4: Contract Summary

Procurement Method	Direct Procurement
Reference Number	LDC/WRKS/2024-2025/00056
Contract Amount	UGX 1,042,443,270
Contractor	Trace Mark (U) Ltd
Contract Signature Date	28 th April 2025
Construction Start Date	28 th April 2025
Project Completion Date	28 th October 2025
Construction Period	183 Days
Construction Days Elapsed to date	128 days
Percentage of Time Elapsed	68.31% of contract duration
Overall Physical Work Progress	94%
Advance Payment	Not Applicable
Gross work valued	UGX 958,063,548.77 (WHT&VAT inclusive)
Net Amount Paid to Contractor to date	UGX 840,765,514.62

Amount not yet Paid	UGX 180,765,514.62
Cost -wise progress	87.8%
Contract Manager	Doreen Namutamba
Date of Contract Audit	10 th September 2025

The Authority noted the following exceptions:

1. Infrequent Submission of Monthly Reports

Regulation 52(3) (g) of the PPDA (Contracts) Regulations 2023 requires the Contract Manager to submit monthly reports on the progress of the contract to the Accounting Officer and to the Procurement and Disposal Unit. The Authority noted that at the time of audit on 10th September 2025, the Contract Manager had submitted progress reports for the months of May 2025 and June 2025. However, the monthly reports for July and August 2025 were not on file.

Implications

- Infrequent reporting denies the Accounting Officer and the Entity key information on the project progress.
- This also reflects infrequency of site meetings, the basis upon which progress reports are issued.

Management Response

We acknowledge the finding of infrequent submission of monthly reports. We will reinforce the importance of timely report submission.

Recommendations

The Accounting Officer should task the Contract Manager to provide monthly progress reports in accordance with Regulation 52(3)(g) of the PPDA Contract Regulations 2023.

2. Lack of Monthly Site Meeting Minutes

Regulation 52 (3) (a) (vii) of the PPDA (Contracts) Regulations 2023 provides that a Contract Manager shall ascertain that all contract management records are kept and archived as required. Section 44 (1) of the PPDA Act Cap 205 provides that a Procuring and Disposing Entity shall maintain records on its procurement and disposal proceedings for a period of seven years. Contrary to the above provisions, the Authority noted that minutes of monthly site meetings were not kept on file.

Implication

Failure to keep all records pertaining to the contract management process denies the Entity sufficient information about the project implementation process and could affect contract monitoring.

Management Response

We acknowledge that meeting minutes were not properly documented. To rectify this we will assign responsible personnel to record and file minutes for all future site meetings.

Recommendation

The Accounting Officer should task the Contract Manager to ensure that all records pertaining to contract management are kept on the contract management file in accordance with Regulation 52 (3) (a) (vii) of the PPDA (Contracts) Regulations 2023 and Section 44 of the PPDA Act Cap 205.

3. Failure to Provide Insurance Cover

Whereas GCC 18.1 of the Special Conditions of the Contract required provision of insurance covers by the contractor, the audit revealed that the contractor did not provide insurance covers.

Implication

Failure to provide insurance covers is risky; it exposes the Entity to legal suits arising from professional negligence, injury or damage, which may arise during the course of the contractor's work.

Management Response

We acknowledge the finding regarding failure of the contractor to provide insurance cover. Moving forward we will ensure the contractors provide insurance.

Recommendation

Contract Managers should in future ensure that contractors submit insurance covers in accordance with the Special Conditions of the Contract.

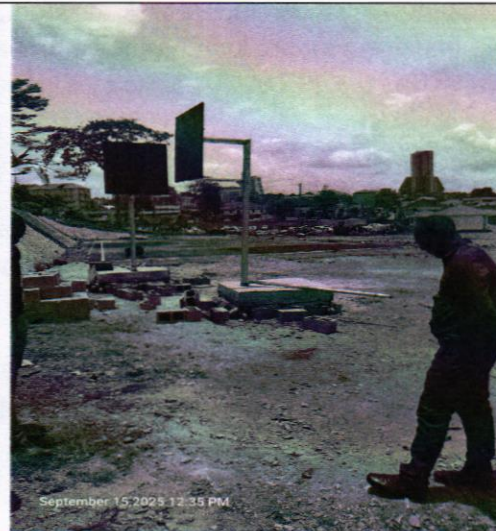
Conclusion

From the findings of the contract audit, the beautification & landscaping works phase 2 at LDC was ahead of schedule with physical progress at 94% as at 15th September 2025 signifying 57 days ahead of time. This excellent performance regarding timely completion of the project was partially attributed to close supervision by the Project Preparation Committee and timely payments of the contractor's invoices.

Physical Verification



Levelled Netball pitch



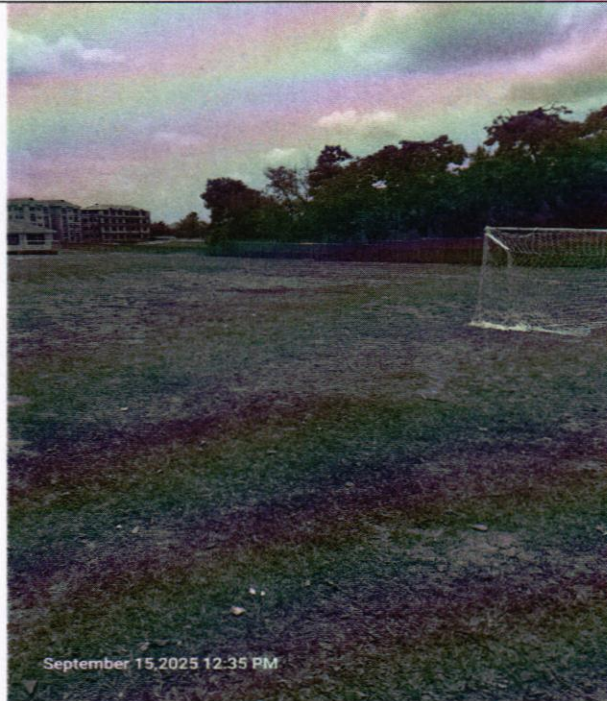
Fabricated goal posts for the basketball court



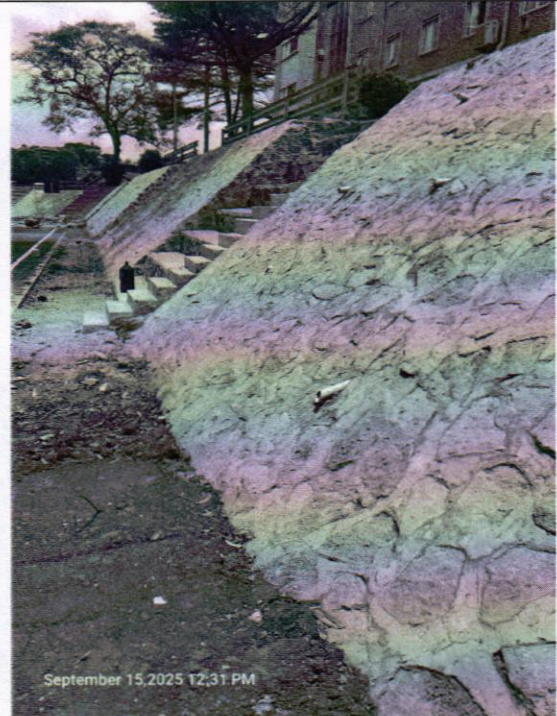
Constructed Basketball court



Constructed Parameter wall fence



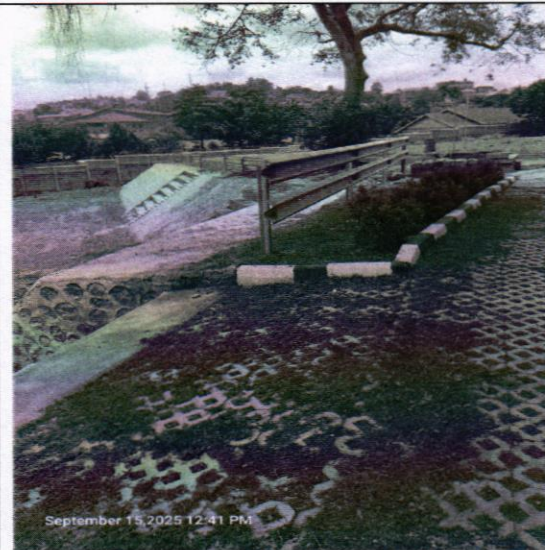
Levelled pitch planted with grass



Stone pitching at the retention wall with guard rails installed at the upper side of the basketball court



Paved walkway on the upper side of the basketball court



Installed guard rails on top of the retention wall at the basketball court

ANNEXES

Annex I: Site Inspection Book

 TEMPAR CONSTRUCTION LTD	
Dealers in General Construction, Architectural Designs, Interior Designs, Civil Works Email: temparconstructionltd@gmail.com Mob: +256 772 661 273 / 0759152515 St. Christopher Arcade, Plot No 11, Aler Rd, Cuk Atat, Lira City West, Lira City. P. O. Box 390, Lira	
Procurement Reference No: LDC/WRK/3/2024-2025/00057 Procuring and Disposing Entity: LAW DEVELOPMENT CENTRE	
SITE INSTRUCTION BOOK	
PROJECT NAME: CONSTRUCTION OF THE MULTI-PURPOSE OFFICE BLOCK- PHASE 3	
INSTRUCTION TO PROCEED	
DATE:	15/05/2025
TIME:	
B.O.Q Pay Item No:	Instruction No: 03
WE HEREBY CONFIRM THE FOLLOWING INSTRUCTION ISSUED ON:	
(Empty space for instruction details)	
Comments By Employer/Consultant	PLEASE TRIM THE FOOTING EXCAVATIONS AS PER DESIGN SPECIFICATIONS, PROVIDING A MINIMUM CLEAR COVER OF 50MM ALL AROUND THE REINFORCEMENT TO ENSURE NO REBARS ARE IN CONTACT WITH SOIL
Date & Signature	15 TH MAY 2025 EDWARD SEBAGALA (C.O.W.)
Contractor's Engineer Tempar Constr. Ltd Name & Signature	TWEBAZE DRACE

September 15, 2025 12:17 PM

Annex II: Site Hand over Report


LAW DEVELOPMENT CENTRE
HANDOVER FORM

1. Project Details

- Project Title: CONSTRUCTION OF MULTIPURPOSE BUILDING PHASE 3
- Location: Kampala Campus
- Client: Law Development Centre
- Contractor: TEMPAR CONSTRUCTION LTD
- Contract Ref. No.: LDG/WORKS/2024-2025/000.S.T
- Date of Handover: 29/4/2025

2. Site Handover Summary

- Site Boundaries: Confirmed
- Site Condition: Normal
- Utilities: Water and Electricity is available
- Access Roads: Available
- Drawings Provided: Yes

3. Key Instructions

1. Commencement Date: 29th / APRIL 2025
2. Conditions: As Per the Special Conditions of Contract
3. The contractor shall be responsible for securing the site and complying with safety regulations.
4. Any outstanding issues must be communicated in writing within 3 days of handover, as per the contract.
5. Scope of works: As per the contract.

Page 1 of 2

September 10, 2025 2:28 PM

[Signatures]

Annex III: Interim Payment Certificate



Interim Payment Certificate

Issued by: Green-Cod limited
Address: P.O.Box 27086, Kampala

Client: Law Development Centre
Address: P.O.Box 7117, Kampala

Contractor: Temper Construction Ltd
Address: P.O.Box Kampala

Works: Construction of Multi-purpose Office Block Phase 3

Situated at: Law Development Centre, Plot 339, Makerere Hill Road

Contract Date:

Job reference:

Certificate No.: 001

Issue date: 9th May 2025

Commencement Date: 29th April 2025

Completion Date: 29th October 2025

Contract Amount: Ugx 1,119,127,572

Advance Payment (%):

This Interim Payment Certificate is issued under the terms of the above mentioned Contract.

1	Valuation Amounts a) Valuation of Works Executed b) Variations	UGX	457,565,371
		UGX	-
2	Gross Valuation	UGX	457,565,371
3	Less:		
	a) Advance Payment Recovery (0%)	UGX	-
	b) Retention 10% of amount certified	UGX	(45,756,537)
	c) Previously Certified Amount	UGX	-
4	Net Valuation	UGX	411,808,834
	Add:		
	a) VAT 18%	UGX	74,125,590
5	Amount Certified	UGX	485,934,424

We hereby certify that the amount of interim payment to be made by the Employer to the Contractor is:

Four Hundred Eighty Five Million Nine Hundred Thirty Four Thousand Four Hundred Twenty Four Uganda Shillings

Only

Signed: _____


Project Manager (Green-Cod Ltd)
09 MAY 2025

Signed: _____


Quantity Surveyor (Green-Cod Ltd)

Annex IV: Material Test Results



Excellence Through Precision & Integrity

CERTIFICATE OF ANALYSIS

Date: 22/05/2025

CERTIFICATE NO: PK-891-02

VERSION: 01

1. Client Name: Temper Construction Limited 2. Client Address: N/A 3. Project Title: Proposed Multipurpose Block at LOC Plot 339, Gadam Road 4. Nature of test: Dynamic Probing Resistance 5. Test Method(s): BS EN ISO 12476-3:2005+A1:2011 / ASTM D6951-03 6. Test Location: On Site Plot 339, Gadam Road 7. Results:	8. Client Contact: N/A 9. Project Ref: 2025-0124 10. Date of Testing: 11/05/2025 11. Attachment(s): DCP Test Results
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Evaluation of Bearing Capacities Based On Field DCP Values

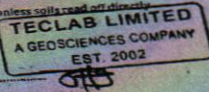
TP No.	Depth (m)	Penetration index value (mm/blow)	Approximate N-value	Uncorrected Compressive Strength q_u (kPa)	Uncorrected Cohesion C_u (kPa)	Ultimate bearing capacity (kPa)	Allowable bearing capacity (kPa)
Point 01 (0.0)m (Grid SC11)	0.3	22.1	11.7	153.3	76.6	293.9	131
	0.6	22.1	11.7	153.3	76.6	293.9	131
	0.9	24.6	10.5	137.6	68.8	262.4	119
	1.2	10.4	23.6	307.2	154.6	794.5	205
	1.5	13.6	17.6	230.6	115.3	592.5	198
	1.8	12.0	20.6	269.9	134.9	693.5	231
Point 02 (0.0)m (Grid UCD8)	0.3	65.0	3.6	265.9	133.0	683.4	40
	0.6	12.2	28.3	104.8	52.4	269.3	90
	0.9	30.9	8.0	85.2	42.6	218.8	73
	1.2	39.2	6.5	66.8	33.4	171.7	57
	1.5	48.3	5.1	66.8	33.4	245.0	82
	1.8	34.4	7.3	95.0	47.5	342.7	28
Point 03 (0.0)m (Grid UCD4)	0.3	75.3	2.5	32.8	16.4	134.7	45
	0.6	55.0	4.0	52.4	26.2	117.8	39
	0.9	70.0	3.5	45.9	22.9	117.8	112
	1.2	25.8	10.0	131.2	65.3	336.7	126
	1.5	23.2	11.2	146.7	73.4	377.1	197
	1.8	26.7	9.5	124.5	62.2	319.8	

12. Remarks

12.1 For cohesive soils, the relationship $q_u = 13.1 \times$ Design N-value is used for evaluation of unconfined compressive strength q_u . The cohesion $C_u = q_u/2$ and ultimate bearing capacity is evaluated using a factor of safety 3

12.2 Estimates of Allowable Bearing capacity with settlement limited to approximately 25 mm for cohesionless soils read off directly from the chart (Published by Terzaghi and peck 1967). Using the N values and width footing of 2m

12.3 Estimates of presumed allowable bearing capacity values for scheme design not detailed design



Checked By: 
Catherine Njijingo
Materials Engineer

End Of Report: _____

Approved By: 
Robinson Onah
Technical Manager

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UGANDA NATIONAL BUREAU OF STANDARDS
MATERIALS LABORATORY TEST REPORT

Test Report No: CM/2024/02022 Sample No: L/1211/2024E Field No: PC/2024/3274-1
Name of Client: CARTIER TECHNOLOGY LIMITED Address: Plot 432/6651, Kyegwa Block 113, Namuwu Industrial Park,
Namuwu, Wakiso District, Uganda.
Manufacturer / Exporter: CARTIER TECHNOLOGY LIMITED Sample Quantity: 5 L + (50 kg Cement; 50 kg
sand, 100 kg aggregates)
Lot Size: N/A
Sample Description: Chemical admixtures for concrete -Type B, Water Reducing, High Range
(Cartier Type F brand)
State of Sample(s): 3L of Type F chemical admixture
Lab Receipt Date: 2024-06-05 Analysis Start Date: 2024-06-06 Analysis End Date: 2024-07-04
Test Method(s): US 1681: 2017

Test Results		Results	Specification	Status
#	Parameters			
1	* Compressive strength min % of control		115 (Minimum)	Pass
i)	7 - Day (%)	129.63	125 (Minimum)	Pass
ii)	3 - Day (%)	168.69		

Attachment(s) to the test report: NONE

Remarks:

- The above sample was analysed as per the instructions on UNBS Request for Analysis Form serial Number RFA/2024/4963.
- The Analysis was carried out at UNBS Materials Laboratory located at the address below using the test methods indicated above and the status of results as per the Uganda Standard US 1681: 2017, Chemical admixtures for concrete - Specification.
- The sample tested above met the requirements for the parameters analysed as specified above.
- This test report number (CM/2024/02022) is valid for sample number (L/1211/2024E) only and the results apply to the sample as received.

Note:
1. N/A means "Not Available".

Analysed By: Eng. Tito Mudanye and Jesse Etyeku

Date: 2024-07-04

Technical Signatory: Eng. Lusunda Fred Moses

Date: 2024-07-05

For Executive Director UNBS: _____

- Results marked (*) are not SANAS Accredited and are not included in the SANAS scheduled of Accreditation for this laboratory
- Opinions and interpretations expressed herein are outside the scope of SANAS accreditation
- This test report is only valid if it bears an authorised signature. The test report has been issued without any alterations and may not be reproduced except with written approval from the Executive Director, Uganda National Bureau of Standards.

Bweyogerere Industrial Park, Plot 2-12, Bypass Link, Kyaliwajjala Road, P.O.BOX 6329, Kampala. Tel: 0417333250

September 10, 2025 3:00 PM

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