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3. دَسَوَرَا دَسَوَرَا دَسَوَرَا:

- دَسَوِ اِسَاقِ مَوْزِ سَبُو رَدَّسَ عَكْرَسَ اِسَاقِ عَقَرُ عَسَرَسَ قُسِرَ دِ اِبْخُسُرُ اِنْدِ اِسَاقِ نَعْمَ عَقَرَسَ نَعْمَ عَقَرِ اِقُو

[illegible]

- د دسواکون د نړۍ تر ستروکې رډر او وخت د تر ستروکې.
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5. دوسو نامور اکر سرسرو ۽ ۵:

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## 6

6.1 دستورالعملی که 50% (جداگانه) بررسی می‌شود توسط 50 درصد از  
تیم‌های بررسی در دسترس است.

6.3 دسویں صدی میں عربی 20% (موجودہ خطوں پر مبنی) اور دسویں صدی میں عربی

مَرْتَبِیَّہٗ، 10 مَرْتَبِیَّہٗ

وَمِنْ زُرِّيٍّ سَدَّ 2 زُرِّيٍّ سَدَّ.

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قرآن مجید میں ۱۱۴ سورہیں ہیں۔

15%  $\frac{5}{33}$

(س) تھری سٹو جیج ٹیڈن ہڈس، رارہ سوڈس جیڈس راس



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# 8. ප්‍රවේශයේ කොටස:

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(ආ) ප්‍රවේශය

(ඇ) ප්‍රවේශයේ ඇති සියලුම තොරතුරු සහතික කර ඇත.

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07 ප්‍රවේශය 2024







# Terms of Reference (ToR) for Structural Integrity Assessment of Block E - VilliMale Commercial Area

## 1. Background

The Male' City Council intends to assess the structural integrity of Block-E Building located in the VilliMale' Commercial Area. The facility, if deemed structurally sound, will accommodate various functions of the Male' City Council and government services, serving as a centralised hub for the VilliMale' community. This assessment is critical to ensure the safety, functionality, and longevity of the building, especially considering its future use as a community service hub. Understanding the current condition of the structure will also aid in planning any necessary reinforcements or renovations.

## 2. Objective

The main objective of this consultancy is to conduct a thorough assessment of the structural integrity of Block-E Building in VilliMale' Commercial Area. The consultant will determine whether the structure can support the proposed usage and provide detailed, actionable recommendations for any necessary reinforcements or renovations. The expected outcome is a comprehensive understanding of the building's current condition, ensuring that it meets safety standards and is fit for its intended functions.

## 3. Scope of Services

The services required under this ToR include:

- a) **Visual Inspection:** Conduct a comprehensive visual inspection of the building to evaluate the existing conditions of all structural components, including foundations, columns, beams, roofs, staircases and balconies, to evaluate existing conditions.
- b) **Structural Analysis:** Perform detailed structural analysis, identifying any defects or areas of concern that may affect the building's stability and integrity.
- c) **Load-Bearing Capacity Assessment:** Assess the building's load-bearing capacity, ensuring it can support the proposed functions and services.
- d) **Safety Compliance:** Verify the building's compliance with local safety codes and international building standards.
- e) **Building Valuation:** Provide an accurate valuation of the building based on its current structural condition, location, and potential use. This valuation should consider factors such as market trends, depreciation, and any identified structural deficiencies or required renovations.
- f) **Reporting:** Prepare a report that summarises findings, conclusions, and recommendations, including any necessary repairs or upgrades to ensure structural safety. See Annex-1 for the required report format.

## 4. Duration

The duration of the consultancy is **four (4) weeks**, starting from the date of contract signing. In case of unforeseen circumstances, such as inclement weather, which might prevent timely inspections, the consultancy period may be extended upon agreement between the consultant and the Male' City Council.



## 5. Reporting and Deliverables

The consultant shall provide the following:

- a) **Work Plan:** Detailing methodology, schedule of activities, and timelines for all deliverables, to be submitted within one week of contract commencement.
- b) **Draft Report:** Submission of a draft report (in electronic format in MS Word) within three (3) weeks, containing findings, preliminary recommendations, and analysis results.
- c) **Final Report:** Submission of the final report within four (4) weeks, incorporating any feedback from the Male' City Council. The final report should be clear, detailed, and include sections such as an executive summary, detailed findings, and digital formats (PDF and Word).

## 6. Qualification and Experience

To successfully execute the services required under this ToR, the consultant should have the following qualification(s) and experiences:

- a) A Bachelor's Degree in Structural or Civil Engineering.
- b) Minimum five (5) years of post-qualification experience in structural assessments and analysis.
- c) Minimum two (2) years post qualification experience in structural and civil designs would be an asset.
- d) Proven track record of successfully completing similar assessments for buildings designated for mixed-use.
- e) Registered Civil/Structural Engineer with the Ministry of Construction and Infrastructure.
- f) Minimum 3 years post qualification experience in Structural and Civil designs would be an asset.
- g) Familiarity with local building codes and international standards.
- h) Additional experience in projects of similar scope of services and nature as described in this Terms of Reference is advantageous.
- i) Desired certifications in structural safety or engineering consultancy are also beneficial.

## 7. Payment Schedule

This consultancy is expected to last for a period of four (4) weeks after commencement of services. Payment will be made in three instalments:

- a) 15% of Contract Sum upon acceptance of the Work Plan.
- b) 50% of Contract Sum upon submission and acceptance of the Draft Report.
- c) 35% of Contract Sum upon acceptance of the Final Report.

Payments are contingent on satisfactory completion and approval of deliverables. In cases where deadlines are not met, the Male' City Council reserves the right to enforce penalties or reduce payments, ensuring accountability and quality assurance.

This ToR outlines the essential requirements and expectations for the structural integrity assessment to ensure the building at VilliMalé can safely serve its intended purpose as a hub for community and government services.



## ANNEX – I: Report Structure

<b>1. Cover Page</b>		<ul style="list-style-type: none"> <li>Project Title: "Structural Integrity Assessment Report"</li> <li>Building Name/Location</li> <li>Client Name</li> <li>Date of Report</li> <li>Prepared By (Consultant Name)</li> </ul>
<b>2. Executive Summary</b>		<ul style="list-style-type: none"> <li>Brief introduction of the project</li> <li>Scope of the assessment</li> <li>Summary of key findings, including any immediate concerns that require urgent attention</li> <li>Main recommendations for action</li> </ul>
<b>3. Table of Contents</b>		<ul style="list-style-type: none"> <li>Clear listing of sections and subsections with page numbers</li> </ul>
<b>4. Introduction</b>		<ul style="list-style-type: none"> <li>Background of the assessment</li> <li>Purpose and objectives of the assessment</li> <li>Scope of the report</li> <li>Overview of the building (e.g., type, age, usage)</li> </ul>
<b>5. Methodology</b>		<ul style="list-style-type: none"> <li>Description of the assessment approach</li> <li>Types of inspections and tests performed (e.g., visual inspection, non-destructive testing)</li> <li>Equipment and tools used</li> <li>Standards and codes referred for assessment</li> </ul>
<b>6. Building Description</b>		<ul style="list-style-type: none"> <li>General description of the building (e.g., structural system, number of floors, materials used)</li> <li>Floor plans and layout</li> <li>Key structural elements (beams, columns, slabs, foundations)</li> <li>History of modifications or repairs (if any)</li> </ul>
<b>7. Field Assessment and Observations</b>		<ul style="list-style-type: none"> <li>Details of the site visit(s)</li> <li>Observations of the structural components (e.g., cracks, deflections, material degradation)</li> <li>Documentation of conditions (supported with photos, sketches)</li> <li>Access limitations (if any)</li> </ul>
<b>8. Structural Analysis and Findings</b>		<ul style="list-style-type: none"> <li>Analysis of the collected data and findings</li> <li>Load assessment (dead loads, live loads, wind loads, seismic loads, etc.)</li> <li>Evaluation of structural capacity and stability</li> <li>Results of any non-destructive tests (e.g., rebound hammer tests, ultrasound)</li> <li>Summary of critical observations and their implications on structural integrity</li> </ul>
<b>9. Control and Predictive Analysis</b>		<ul style="list-style-type: none"> <li>Desk study including design standards and codes</li> <li>Review of existing structural drawings (if available)</li> </ul>





		<ul style="list-style-type: none"> <li>• Stepwise design methodology for assessing structural safety</li> <li>• Analytical results (e.g., for beams, columns, and load-bearing elements)</li> <li>• Simulation or modelling outcomes (if performed)</li> </ul>
<b>10. Valuation</b>		<ul style="list-style-type: none"> <li>• Provide a brief overview of the VilliMale' property market, construction costs, including current trends, comparable property prices, and demand for similar properties.</li> <li>• Present the final valuation amount based on the methodology used.</li> </ul>
<b>10. Conclusion</b>		<ul style="list-style-type: none"> <li>• Summary of the overall condition of the building</li> <li>• Identification of key structural issues and risks</li> <li>• Discussion of the building's ability to meet safety requirements</li> <li>• Summarise key factors influencing value, with adjustments made based on structural conditions, location, and market factors.</li> </ul>
<b>11. Recommendations</b>		<ul style="list-style-type: none"> <li>• Immediate actions to address any urgent structural issues</li> <li>• Medium to long-term recommendations for repair, reinforcement, or further monitoring</li> <li>• Maintenance suggestions to ensure ongoing structural health</li> <li>• Considerations for future assessments and inspections</li> </ul>
<b>12. References</b>		<ul style="list-style-type: none"> <li>• List of standards, codes, and documents referred to</li> <li>• Technical references and sources cited throughout the report</li> </ul>
<b>13. Appendices</b>		<ul style="list-style-type: none"> <li>• Appendix A: Structural drawings and schematics</li> <li>• Appendix B: Test data and results (e.g., rebound hammer test, core test results)</li> <li>• Appendix C: Photographic documentation of site conditions</li> <li>• Appendix D: Calculation sheets and analysis models</li> <li>• Appendix E: Inspection checklists</li> <li>• Appendix F: Summarise key factors influencing value, with adjustments made based on structural conditions, location, and market factors.</li> <li>• Appendix G: Certifications and credentials of the assessment team (if required)</li> </ul>
<b>14. Certification</b>		<ul style="list-style-type: none"> <li>• Signature of the assessment engineer(s)</li> <li>• Certification statement validating the accuracy of the assessment</li> </ul>

