

EXHIBITION SPACE ADAPTABILITY

Open Space
An unobstructed environment designed for maximum adaptability.

Temporary Exhibition
Transforming the hall into a flexible exhibition environment.

Cultural Gala
Accommodating receptions, ceremonies, and special cultural events.

Learning Workshop
Supporting interactive educational and collaborative activities.

LANDSCAPE STUDY

Interactive Areas
A dynamic outdoor environment combining water features, green spaces, seating areas, and interactive elements to enhance visitor engagement.

VIP Entrance
A dedicated arrival point providing direct and controlled access for official guests and special events.

Mamsha Ahl Masr Entrance
A welcoming entrance connecting the project to the Nile waterfront and the surrounding public realm.

Main Entrance Plaza
A central gathering space that organizes visitor movement and establishes the primary arrival experience to the cultural district.



STRUCTURAL ANALYSIS

Structural System Description
The project utilizes a hybrid structural system that combines **Post-Tension Concrete** and **Space Truss Viereendeel** systems for the main building, providing long-span, column-free spaces, structural efficiency, and architectural flexibility. The tower is supported by a **Shear Wall Core** that ensures lateral stability against wind and seismic forces, complemented by a **Cable-Suspended Structure** that reduces structural weight while enabling a distinctive and expressive architectural form.

Building Structure

Cable-Suspended Structure
A lightweight system using tensioned cables to carry loads, enabling long spans with minimal structure and an elegant architectural form.

Shear Wall Core
A reinforced concrete core that provides lateral stability by resisting wind and seismic loads while housing vertical circulation and building services.

Post-Tension Slabs
A structural system that uses tensioned steel tendons within concrete to achieve longer spans, thinner slabs, and reduced structural deflection while minimizing cracking.

Space Truss Varandels
A lightweight long-span system combining space trusses and varandels frames to create large column-free spaces with high structural efficiency and flexibility.

Tower Structure

Reinforced Concrete Transfer Beam
transfers cable forces to the core for stable load distribution.

Aluminum-Clad Steel Cables
shields main tension cables from corrosion and weathering, improving durability.

Tension Steel Cables
Primary structural system of high-strength steel cables that carry and distribute loads through tension, enabling a lightweight and slender form.

Reinforced Concrete Core
The reinforced concrete core is the tower's structural spine, providing lateral stability, anchoring the cable system, and transferring loads to the foundation.

EXPERIMENTAL STUDY

Cantilever Restaurant
A dramatic cantilevered destination that combines dining with panoramic views of the museum complex and the surrounding city. The elevated position creates a unique visitor experience while emphasizing the relationship between architecture, landscape, and the historic urban fabric of Tahrir Square.

Cantilever Conference Hall
A distinctive cantilevered volume designed to host conferences, lectures, cultural events, and academic gatherings. The projecting form expresses innovation and structural ambition while establishing the hall as a prominent landmark within the project, reflecting the museum's role as a center for knowledge exchange and cultural dialogue.

Inclined Entrance Mass
A monumental inclined architectural volume that establishes a strong visual identity for the museum and acts as a symbolic gateway to the visitor experience. The dynamic geometry enhances the sense of arrival while creating a memorable transition from the public realm into the cultural and educational environment of the project.

Entrance Ramps Road
A carefully designed processional route that gradually guides visitors toward the main entrance. The sequence of movement enhances anticipation and creates a smooth transition between the surrounding urban context and the museum experience, allowing visitors to engage with the architecture before entering the building.

Museum Link
A strategic connecting element that strengthens the relationship between the new museum and the historic Egyptian Museum. The link serves as both a physical and visual connection, preserving the cultural continuity of the site while creating a dialogue between heritage and contemporary architectural expression.

Outdoor Exhibition
An open-air exhibition environment designed to expand the museum experience beyond enclosed galleries. The space accommodates large-scale artifacts, sculptures, and temporary installations while providing visitors with opportunities to interact with cultural content within a landscaped setting that blends architecture, heritage, and public space.

