



DESIGN AND BUILD REQUIREMENTS

EQUATORIAL BUS STAND – ER SIDE

Addu City, Maldives

1. Project Brief

The Contractor shall provide a complete design-and-build service for the Equatorial Bus Stand at the Emergency Department (ER) side of Addu Equatorial Hospital (AEH). The scope includes design, engineering, supply, construction, installation, testing, commissioning and handover of a fully enclosed, air-conditioned public waiting facility. The facility shall provide a safe, comfortable and weather-protected waiting area for patients, relatives and public transport users, including elderly persons, persons with disabilities, pregnant women and children.

The attached architectural concept image is the reference design for the required appearance, layout, materials and key specifications. It is a concept drawing and is not a construction drawing. The Contractor shall verify site conditions and prepare coordinated, technically complete drawings for AEH approval before works begin.

2. Reference Concept and Overall Dimensions

The Contractor shall use the supplied Equatorial Bus Stand architectural concept as the design basis.

Item	Required specification
Overall dimensions (L × W × H)	6000 mm × 2943 mm × 3000 mm, as shown in the concept drawing.
Capacity	Approximately 20 people.
Clear height	3000 mm, subject to confirmation in coordinated design.
Structure	Reinforced concrete.
Back wall	Cement finish / plaster and paint, or approved equivalent.
Front and side glazing	10 mm clear tempered glass with black aluminum framing, as stated in the concept.
Door	Convenient, accessible door. Contractor to specify the proposed door system and obtain AEH approval.
Roof / fascia	Reinforced concrete slab roof with light-grey painted finish and a clean modern fascia suitable for signage.
Floor finish	Light-grey, slip-resistant porcelain tile.
Seating	Silver powder-coated metal seating with perforated seats.
Air-conditioning	Ceiling cassette air-conditioning system.
Lighting	LED downlights and cove lighting.
Power	Concealed electrical system.
Surveillance	CCTV camera system.
Signage	Three-dimensional illuminated letters on the fascia.



3. Architectural and Functional Requirements

3.1 Enclosed waiting area

Provide a fully enclosed and fully air-conditioned waiting area. The front and portions of the side elevations shall use full-height glazing in accordance with the reference concept to maintain visibility, daylight and a modern appearance.

3.2 Layout and furniture

The Contractor shall supply, deliver, assemble and install all furniture required for a complete and usable bus stand. This shall include seating for approximately 20 people, arranged generally in accordance with the concept floor plan, and any other furniture shown in the approved design. Furniture shall be durable, stable, suitable for frequent public use, easy to clean and appropriate for the coastal environment. All furniture costs shall be included in the Contractor's quotation; furniture shall not be treated as an item to be supplied by AEH unless expressly agreed in writing. The Contractor shall submit a furniture schedule, specifications, quantities and layout for AEH approval. Maintain clear access routes and wheelchair maneuvering space.

Provide seating for approximately 20 people, arranged generally in accordance with the concept floor plan. Maintain clear access routes and adequate maneuvering space for wheelchair users. Final seat count and layout shall be shown on the submitted floor plan and approved by AEH.

3.3 Accessible entry

Provide a convenient, safe and accessible entrance. The Contractor shall identify the proposed door type, clear opening width, threshold details and any ramp or level-access solution needed after surveying the site.

3.4 Structure and roof

Use reinforced concrete for the principal structure and roof slab as shown in the concept. Submit structural calculations and details appropriate to the site and intended public use. The roof and fascia shall be weatherproof and finished in light grey.

3.5 Wall and floor finishes

Provide smooth cement plaster and paint to the back wall, and light-grey slip-resistant porcelain floor tiles. All finishes shall be durable, suitable for frequent public use and easy to clean.

3.6 Glazing and framing

Provide 10 mm clear tempered glass with black aluminium framing, as indicated in the reference concept. Submit glazing and framing details, including safe edges, fixing methods and suitability for local coastal conditions, for AEH approval.

3.7 Branding and signage

Provide the words 'EQUATORIAL BUS STAND' in three-dimensional illuminated letters on the front fascia. Provide dedicated branding panels on both side elevations for AEH and/or approved sponsor branding. Final artwork, colours and dimensions shall be approved by AEH.



3.8 CCTV and lighting

Install CCTV surveillance and energy-efficient LED downlights and cove lighting. Include wiring, controls, fittings and accessories required for a complete, operational installation.

3.9 Hygiene and safety

Use easy-to-clean finishes, provide suitable waste bins, protect exposed edges and avoid trip hazards. The layout shall be safe for children and other members of the public.

4. Air-Conditioning, Electrical and Services

- Provide a ceiling cassette air-conditioning system sized by the Contractor using the final room dimensions, glazing, occupancy and local design conditions. State the proposed make, model, cooling capacity, power requirement and warranty.
- Provide a concealed electrical installation, including wiring, distribution/protection devices, earthing, switches, sockets where required, and all connections necessary for safe operation.
- Provide all electrical connections for the AC system, LED lighting, illuminated signage and CCTV. Coordinate the required supply point and available load with AEH before installation.
- Include testing and commissioning of all supplied systems and submit the corresponding records at handover.

Complete Electrical Installation – Contractor’s Responsibility

The Contractor shall supply, install, test and commission the complete electrical installation required to make the bus stand fully operational. The scope shall include concealed wiring and conduits; distribution board; circuit breakers and protective devices; switches and required sockets; earthing/grounding; internal and external lighting circuits; and all cables, fittings, isolators, accessories and connections needed for the AC system, LED downlights, cove lighting, illuminated fascia lettering, CCTV and any digital display or other equipment included in the approved contract.

The Contractor shall assess the electrical load and coordinate with AEH to confirm the connection point and available supply capacity before installation. Any new feeder cable, isolator, distribution equipment or other work required between the AEH supply point and the bus stand shall be clearly identified and priced. The Contractor shall submit an electrical layout and load schedule for approval, carry out electrical safety and earthing tests, and provide test results and as-built electrical drawings at handover.

No wiring, connection, fitting or accessory necessary for safe and complete operation shall be excluded unless expressly listed in the quotation and approved by AEH. All electrical work shall be performed by competent personnel and comply with applicable electrical safety requirements and AEH instructions.

5. Site Verification, Drainage and Hospital Operations

- The proposed location is the AEH ER frontage, generally between the main ER entry and exit gates. The exact position shall be confirmed by AEH following a site inspection.
- Before final design, verify dimensions, levels, ground conditions, drainage, utility routes, existing infrastructure and clearances from ER gates and emergency vehicle routes.



- Design the floor level and surrounding interface to prevent rainwater entering the stand or collecting at the entrance. Identify any required drainage or external paving works in the proposal.
- Keep ER access, emergency vehicle routes, pedestrian routes and hospital operations unobstructed throughout construction. Coordinate noisy, disruptive or service-affecting work with AEH in advance.
- Protect existing facilities and services, manage dust and construction waste, secure the work area, and leave the site clean and safe.

6. Contractor's Design Submission

Before construction, the Contractor shall submit the following for AEH review and written approval:

- Site survey and proposed setting-out plan.
- Dimensioned floor plan, elevations, sections and construction details.
- visualization showing the proposed design, colors, fascia signage and both sponsor branding panels.
- Structural design and calculations for the reinforced-concrete structure and roof slab.
- Glazing and aluminum framing specifications and installation details.
- Seating layout and confirmation of proposed capacity.
- Air-conditioning calculations and equipment datasheets.
- Electrical layout, load schedule, lighting layout and CCTV proposal.
- Material/finish schedule, itemized bill of quantities and itemized quotation.
- Construction method statement, safety plan, work programs and proposed completion period.
- List of assumptions, exclusions, alternatives and any deviations from this document.

7. Construction Quality, Testing and Handover

- Do not commence construction until AEH has approved the final design, specifications, materials and programme in writing.
- All materials and workmanship shall comply with the approved submissions and applicable local requirements. Any substitution requires prior written approval from AEH.
- The Contractor shall inspect and test the completed structure, doors, AC, electrical installation, lighting, illuminated signage and CCTV before handover.
- At handover, provide as-built architectural, structural and electrical drawings, equipment details, operating instructions, maintenance recommendations, warranties and test/commissioning records. Supply and install all furniture, remove packaging and debris, and hand over the bus stand ready for use.
- Rectify defects attributable to the Contractor's work and identify the warranty period for each major system and component.

8. Responsibilities and Interfaces

AEH will coordinate the designated site, hospital interfaces and the agreed power-supply connection, subject to confirmation of available capacity and connection arrangements. AEH will confirm final branding and design approvals and coordinate relevant stakeholders.



The Contractor shall be responsible for the design, engineering, materials, labour, construction, installation, temporary works, protection of the site, testing and handover included in its approved contract. The Contractor shall identify all approvals, information and facilities required from AEH. No item shall be assumed to be provided by AEH unless agreed in writing.

9. Contractor's Price Schedule

Item	Contractor to state / price
Design, survey and engineering	
Civil and reinforced-concrete works	
Glazing, aluminium framing and doors	
Floor, wall and fascia finishes	
Seating and internal fixtures	
Air-conditioning supply and installation	
Electrical, LED lighting and illuminated signage	
CCTV system	
External paving/drainage and site reinstatement	
Testing, commissioning and handover	
Total price, taxes and proposed completion period	
Warranty periods and exclusions	
All furniture: supply, delivery, assembly and installation	
Complete electrical installation, connections and testing	

10. Items to Confirm Before Award

AEH shall confirm the exact site location and final dimensions; the door type; the final seating layout and capacity; the required CCTV recording arrangement; fascia lettering and side-panel branding artwork; the available electrical load; and whether solar/hybrid power is to be included in the mandatory contract scope. The Contractor shall flag any conflict between the concept and actual site conditions and obtain written instructions before proceeding.

The image below is the reference concept supplied for this requirement. It is for design intent only; Design and construction shall follow AEH-approved technical drawings.

EQUATORIAL BUS STAND

ARCHITECTURAL CONCEPT DESIGN

A modern, fully enclosed and air-conditioned bus stand providing comfort, safety and convenience for passengers.

-  AIR CONDITIONED
-  CONVENIENT DOOR
-  20 PEOPLE CAPACITY
-  CCTV SURVEILLANCE

PERSPECTIVE VIEW

FLOOR PLAN
Scale 1 : 50

FRONT ELEVATION
Scale 1 : 50

SIDE ELEVATION
Scale 1 : 50

KEY DESIGN FEATURES

- Fully enclosed air-conditioned waiting area for passenger/patient comfort.
- Convenient door for smooth and accessible entry.
- Solid cement block wall finished with wall putty and paint.
- Full height glass on front and half of the sides for transparency and safety.
- Reinforced concrete slab roof with clean modern fascia for signage.
- Dedicated side glass for sponsor branding.
- CCTV surveillance for enhanced safety.
- Energy efficient LED lighting.

MATERIAL & FINISHES

- ROOF / FASCIA**
Reinforced concrete slab with painted finish (light grey)
- BACK WALL (INTERIOR & EXTERIOR)**
Cement plaster with smooth paint finish (light grey)
- GLASS WALLS & DOOR**
10mm clear tempered glass with black aluminum framing
- FLOOR FINISH**
Porcelain tile, light grey, slip resistant
- SEATING**
Powder coated metal silver with perforated seats

SPONSOR BRANDING AREAS

KEY SPECIFICATIONS

Overall Dimensions (L x W x H)	6000mm x 2943mm x 3000mm
Capacity	20 People
Clear Height	3000mm
Structure	Reinforced Concrete
Walls	Back Wall - Cement / Others - Glass
Door	Convenient door
HVAC	Ceiling Cassette Air Conditioning
Lighting	LED Downlights & Cove Lighting
Power	Centralized Electrical System
Surveillance	CCTV Camera
Signage	3D Illuminated Letters on Facade

EQUATORIAL BUS STAND
ARCHITECTURAL CONCEPT DESIGN

PROJECT TITLE
EQUATORIAL BUS STAND
FLOOR PLAN, ELEVATIONS,
PERSPECTIVE & DETAILS

SCALE
As Shown
(1 : 50)

LOCATION
Equatorial Bus Stop

ARCHITECT

CUSTOMER

ISSUED ON
25/06/2024

FOR DEMONSTRATION
PURPOSES ONLY

ISSUED BY
a101

DATE