



Name: Roshini

University: Crescent School of Architecture

Supervisor: Ar. Oviya K.

Project description:

This bus shelter is designed for Khandigai, prioritizing user comfort, safety, accessibility, and Tamil cultural identity. The unusually large site (40m × 8m) is planned as a multifunctional public space. Site analysis showed harsh sunlight and heavy rainfall, leading to a design that maximizes shade, ventilation, and weather protection.

The concept is inspired by traditional Tamil architecture, especially Chettinad column forms. The roof takes inspiration from the mythical bird Annapakshi – a blend of swan and peacock – giving the shelter a dynamic wing-like form. A background jali wall enhances ventilation while retaining the cultural character.

Concrete columns clad with GFRC branch like trees at the top, supporting an ACP roof structure connected through anchors and purlins. Bamboo shingles form the topmost layer, creating a lightweight truss inspired by the wings of the Annapakshi.

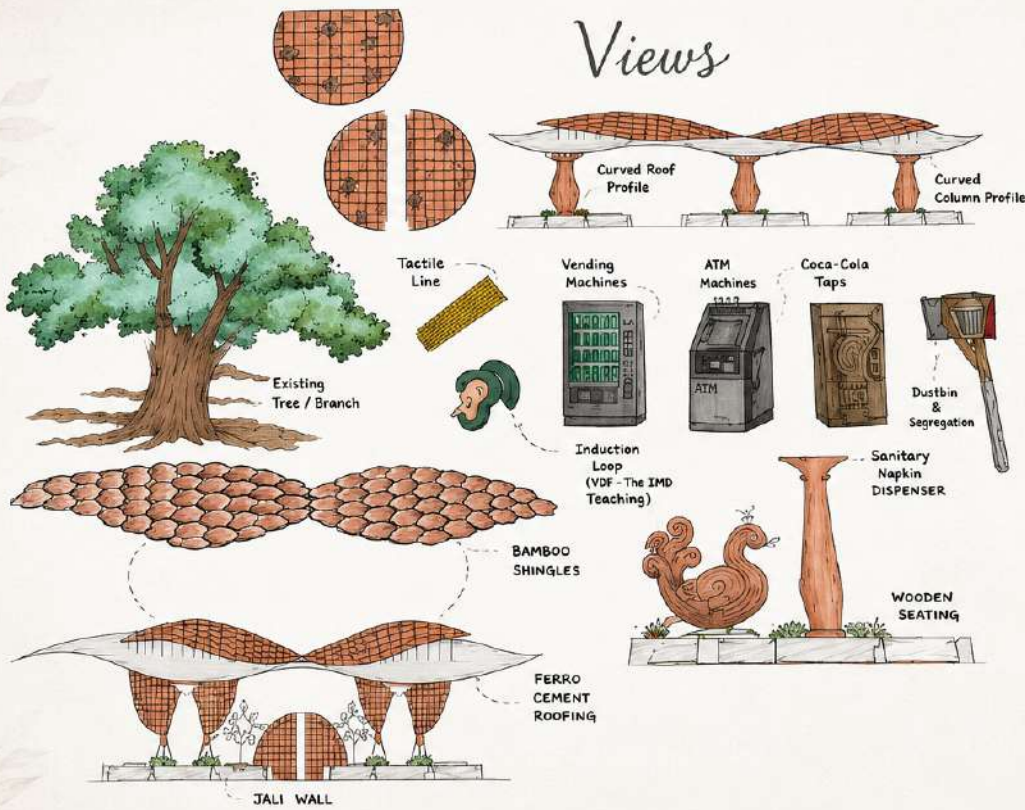
The shelter includes wheelchair-accessible toilets, ramps, cycle parking, e-scooter charging stations, and a dedicated SOS emergency zone for women's safety, enabling instant live video connection with nearby police authorities for quick assistance.

CONCEPT SHEET

BUS SHELTER DESIGN

ARCHITECTURAL DESIGN
AWARD SUBMISSION

Views



DESIGN ELEMENTS

- BAMBOO SHINGLES**
Sustainable roofing inspired by traditional craftsmanship.
- WOODEN AERO COLUMNS**
Innovative aero support columns (grip, shaping the wind flow).
- LOCAL TERRACOTTA**
Crafted with local artisans of one-Kondh for Jali walls.
- JALI WALL**
Natural ventilation, light and shade play.

FACILITIES

- VENDING MACHINE**
Drinks & snacks
- DIGITAL DISPLAY**
Real time bus updates
- ATM MACHINE**
Accessible banking
- TICKET MACHINE**
Handle free Ticketing
- COCA-COLA TAPS**
Refreshment on the go
- SANITARY NAPKIN DISPENSER**
For women hygiene

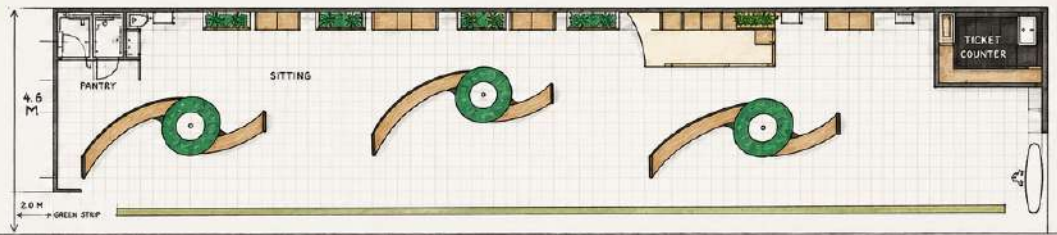
SUSTAINABLE FEATURES

- LOCALLY SOURCED MATERIALS**
- PASSIVE COOLING STRATEGIES**
- DURABLE & LONG LASTING**

Roshni | Bus Shelter

FLOOR PLAN

SCALE : 1 100

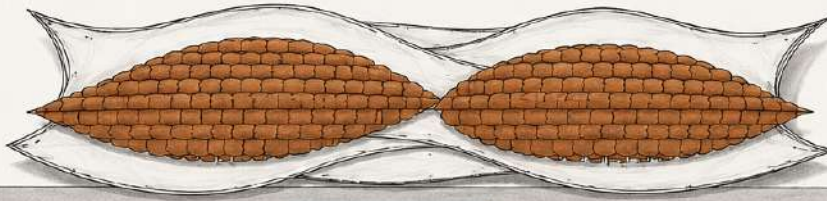


15 M WIDE ROAD.



TOWARDS

KELAMBAKKAM.



15 M WIDE ROAD.



TOWARDS

KELAMBAKKAM.

SCALE 1:100

SITE PLAN

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Bus Shelter

SECTION & ELEVATION

SECTION AA'

SCALE 1:100

SECTION BB'



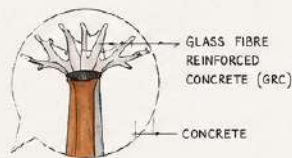
A- JALI WALL



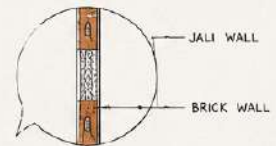
DETAIL B



DETAIL C



DETAIL D



SECTION CC'



ELEVATION



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EXPLODED AXONOMETRIC

- AERO COLUMNS (GRIP)**
- SUPPORT TO
 - REDUCE WIND
 - IMPACT & CREATE
 - TURBULENT DEFLECTION

- BAMBOO SPLIT BAMBOO ROOF AERO COLUMNS (GRIP)
- BAMBOO LATTICE
- BATTENS (BAMBOO)
- WATERPROOF MEMBRANE
- RCC SHELL FERROCEMENT



- SEATING (TIMBER)
- JALI WALL
- PLANTER (TIMBER, RCC)
- BAMBOO (STONE)

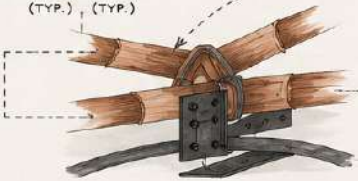
- RCC / GRC SHELL FERROCEMENT FINISH, WATERPROOF MEMBRANE

DRAINAGE SLOPE BUILT INTO FERROCEMENT ROOF WITH RAIN WATER COLLECTION CHANNEL

- DIGITAL DISPLAY
- TICKET MACHINE



CONNECTION DETAIL (TYP.) (TYP.)

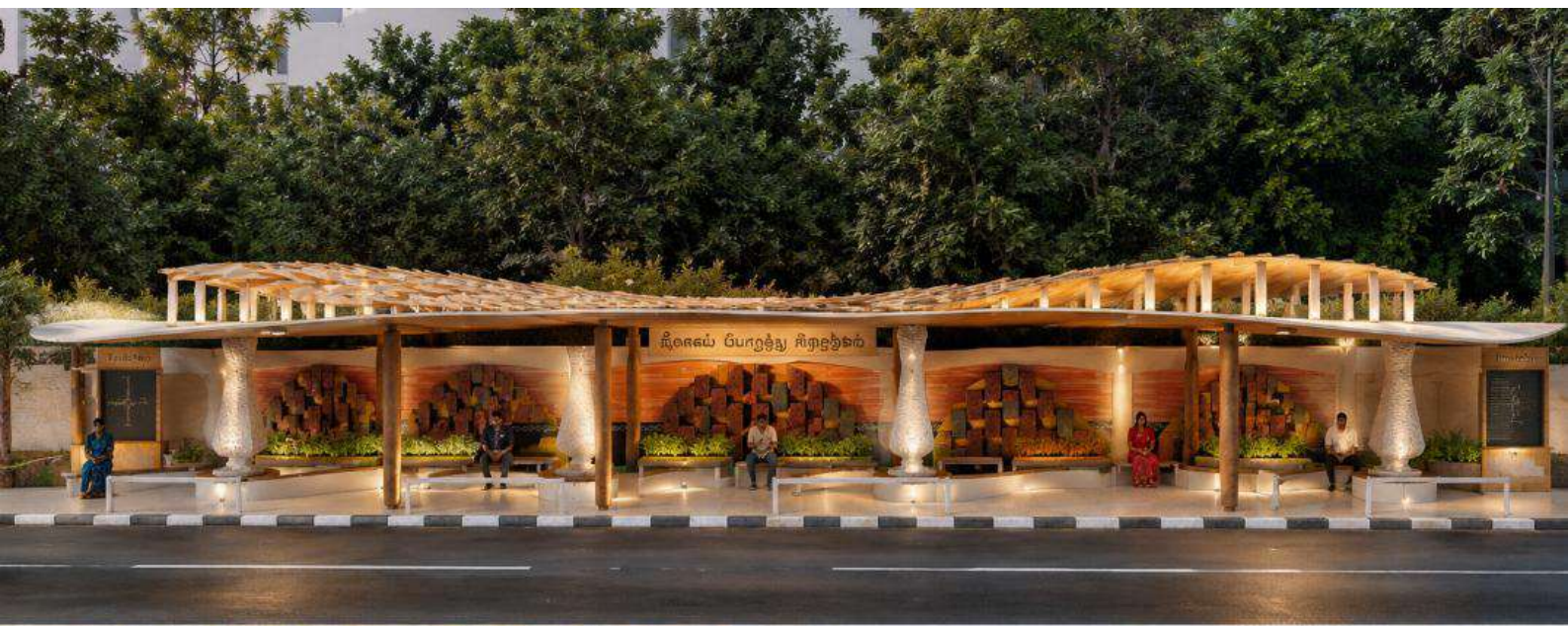


- CONNECTION DETAIL
- STEEL PLATE
- M.S. BOLTS / CLAMP
- STAINLESS STEEL L-SECTION
- ANCHORING TO TIMBER
- BASE PLATE (ATTACHED TO RCC)


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