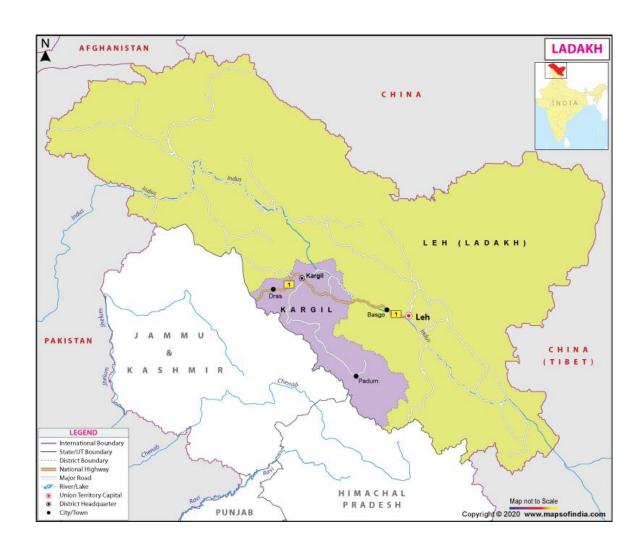
CHOSEN LOCATION: LADAKH REGION





Stone and Mud Brick Walls

Climate:

Cold Desert Climate: Ladakh experiences long, harsh winters with temperatures often dropping below freezing and short, warm summers.

•Low Precipitation: The region receives very little rainfall, making it a cold desert.

Suitability of Architectural Elements:

- •Thermal Mass: Stone and mud bricks have high thermal mass, absorbing heat during the day and releasing it at night, helping to regulate indoor temperatures.
- •Insulation: These materials provide excellent insulation against the cold, crucial for the long winter months.

Flat Roofs with Insulated Layers

Climate:

- •Low Rainfall: Flat roofs are suitable in Ladakh due to the minimal rainfall, reducing the risk of water pooling and leaks.
- •High Solar Radiation: The region receives significant solar radiation, especially in summer.

Suitability of Architectural Elements:

- •Insulated Roofs: Multiple layers, often including mud and straw, provide insulation, keeping homes warm in winter and cool in summer.
- •Flat Design: Simplifies construction and is practical in an area with little rainfall.