

BHIMPHEDI AWASUKA



भीमफेदी आवासुका



A WASUKA ◊ Aawaas Sudhar Karyakram

PATRA KU-KATH

EARTHQUAKE RESISTANT PROTOTYPE

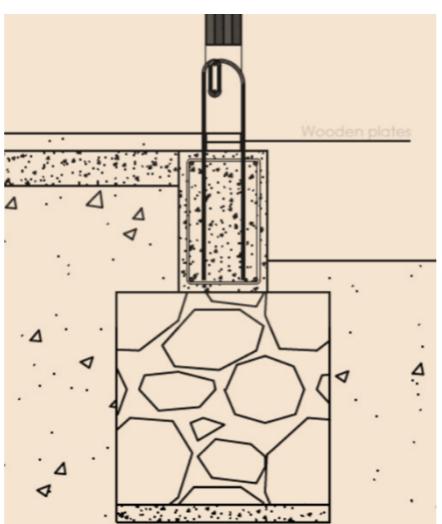
पत्रा कु काठ

भूकम्प प्रतिरोधात्मक नमूना घर

Patra Ku-Kath is an inexpensive wood commonly used for scaffolding. As wood is expensive, Awasuka team has proposed to build a **light-quick-construction** house using prefabricated panels made of Patra. It can be used as a **temporary shelter** and as a **permanent house**. Additionally, typical temporary shelters have bad thermal behavior due to CGI sheets, whereas patra construction improves **thermal comfort**.

PROBLEMS 🤔

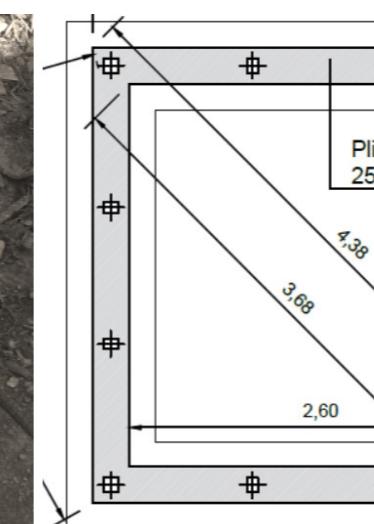
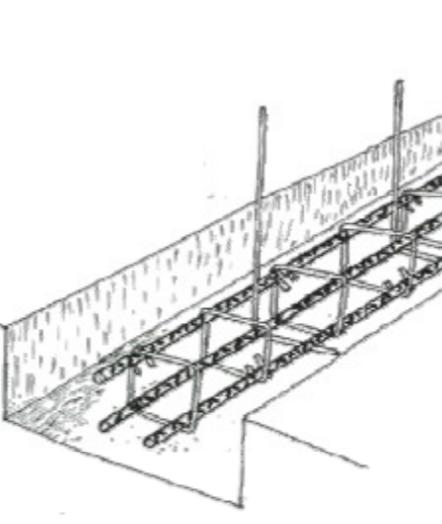
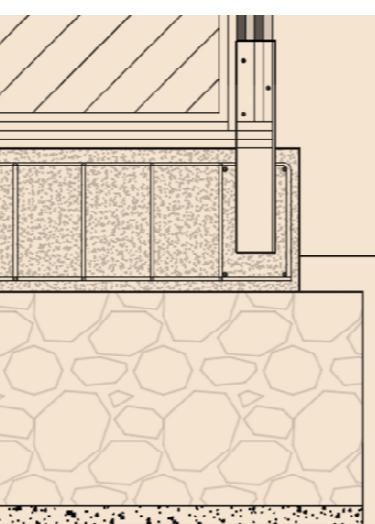
1. Lack of Plinth Beam under walls



SOLUTIONS 🎉

1. Plinth Beam connected to wall panels

The plinth beam connects the base of the house to foundations and stiffens the house construction

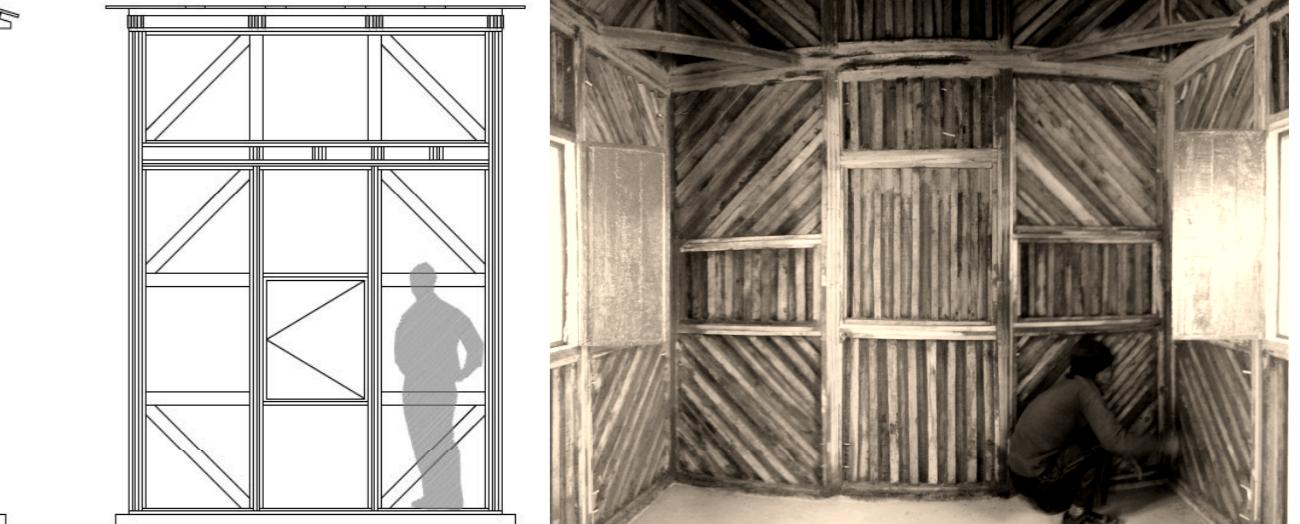
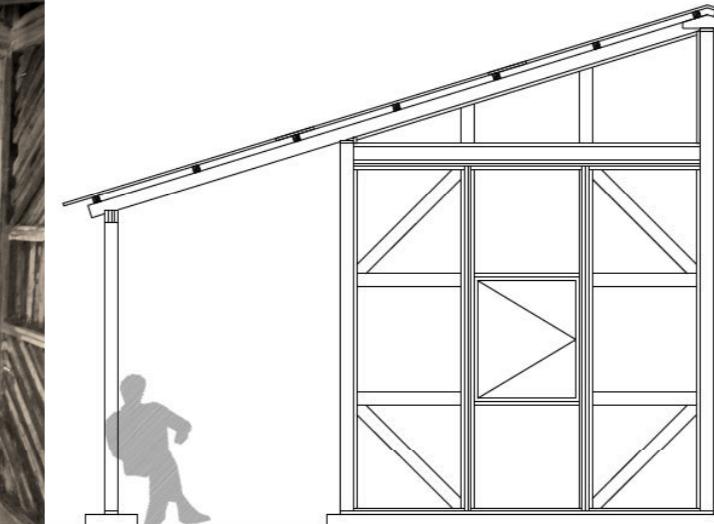


2. Wall planes not stiffened

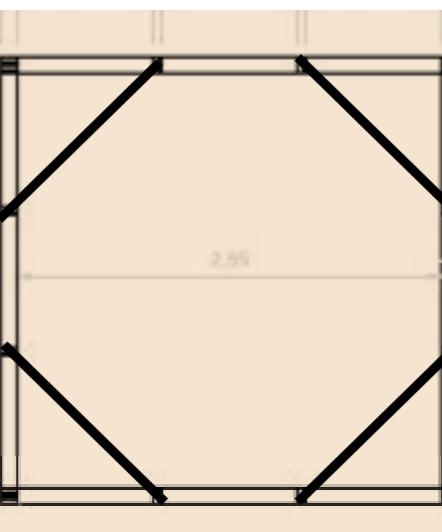


2. Prefabricated panels with diagonals at corners

Panels are built with patra wooden perimetral frames and diagonalized corners in two directions

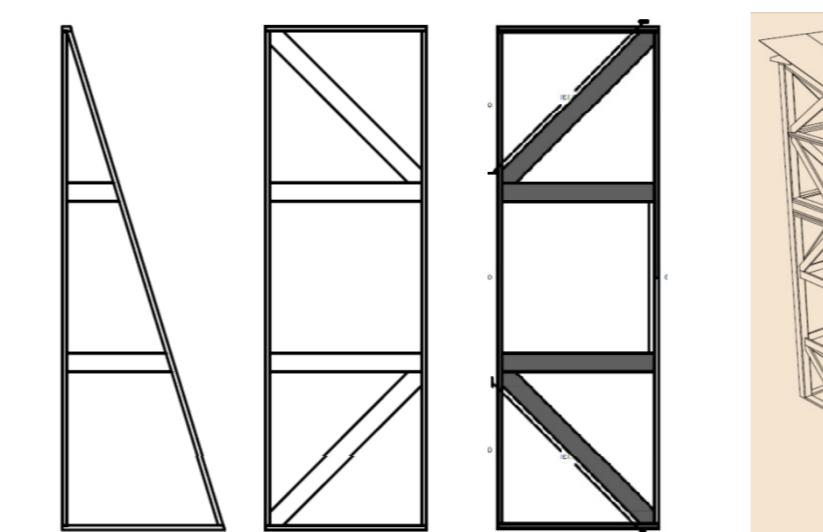
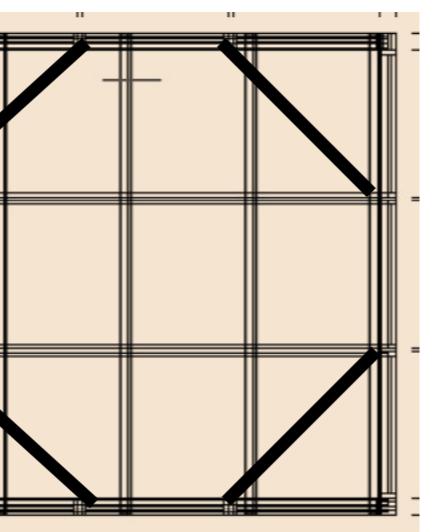
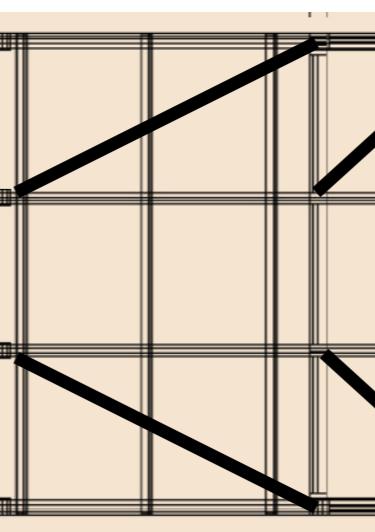


3. Roof planes not stiffened

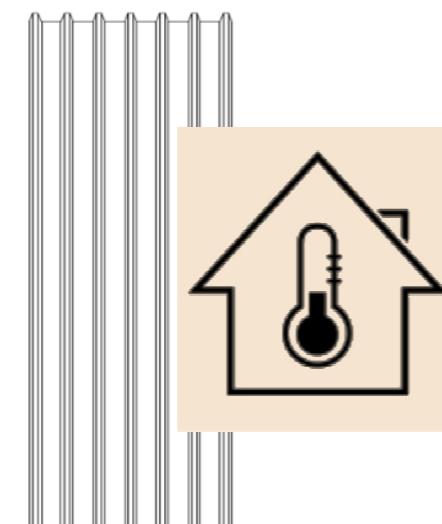


3. Roof diagonals added at horizontal planes

Adding diagonals in all roof corners stiffens the house structure and does not let it be released

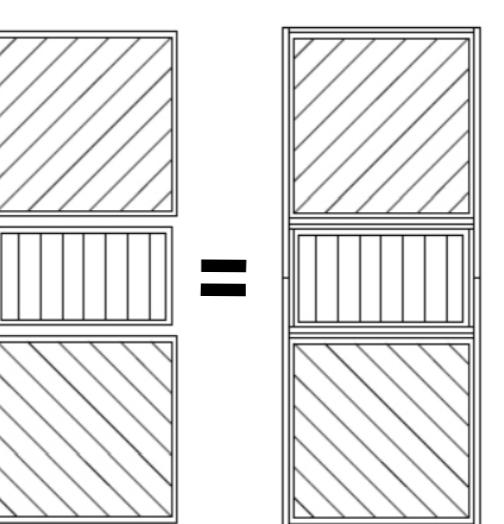
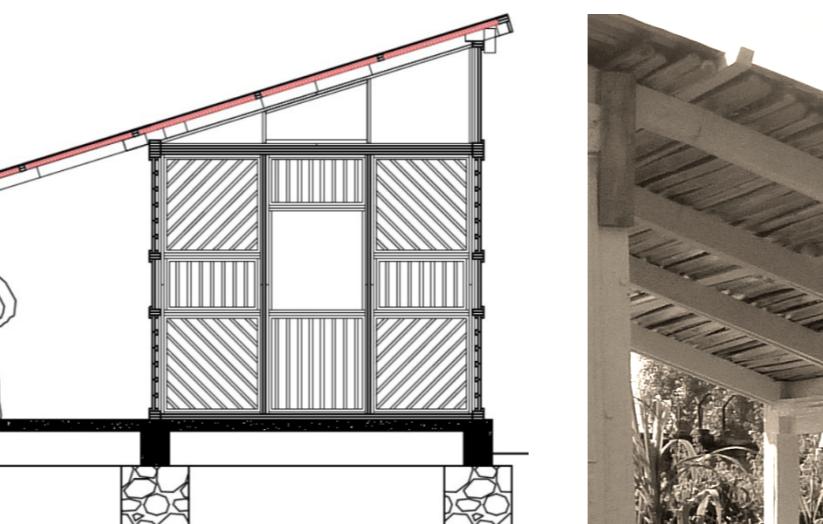
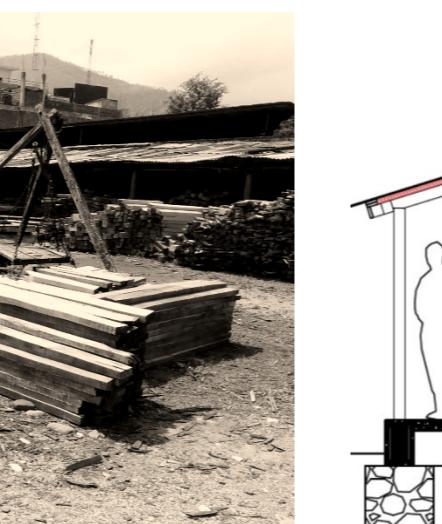


4. Lack of thermal insulation



4. Wooden walls and insulated roof provide thermal comfort

Elements made of CGI sheet must always be insulated with bamboo, wood or other materials



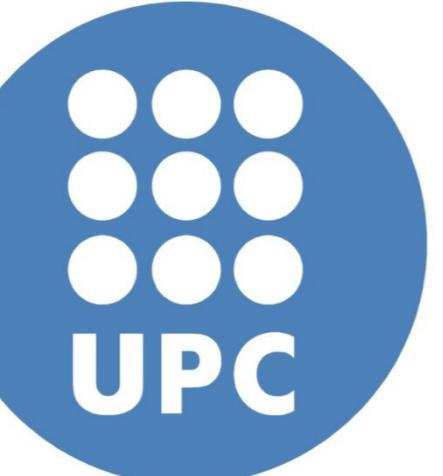
AWASUKA DEVELOPERS



Amics del Nepal



Base A



CCD-UPC

PROMOTER



LOCAL PARTNERS



Agragaami Krishak Krishi Sahakaari



SERVAMUS
RI DISTRICT 3292

Rotary Club Kantipur

SPONSORS



Ajuntament de
Caldes de Montbui



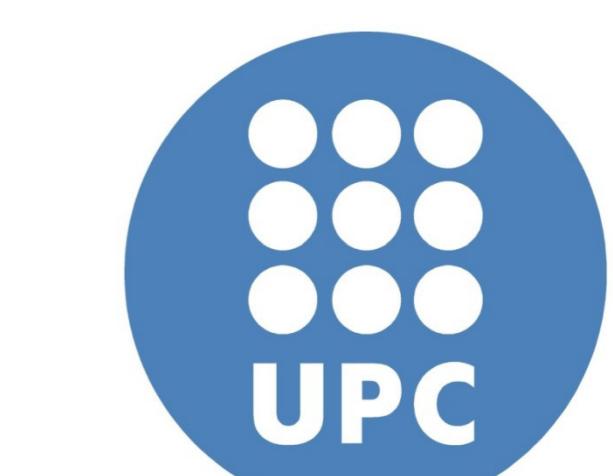
Col·legi d'Arquitectes
de Catalunya



Ajuntament
de Sant Quirze
del Vallès



Ateneu del Món



Ayuda al Nepal
TARANNA
VIATGES AMB SENTIT

