mHS CITY LAB

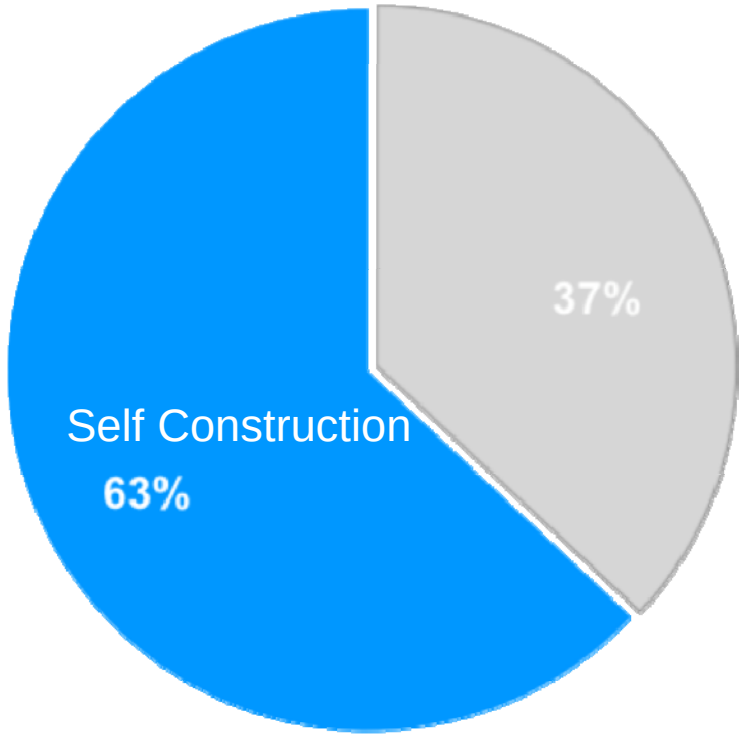
Self Construction

a process in which the homeowner ***is closely*** involved in every aspect of building, extending or refurbishing her unit, either undertaking the building work herself or contracting a mason under close supervision. Self-construction is ***not*** usually guided by current safe design or building norms and is influenced by word- of-mouth and informal knowledge of construction practices and technology.

Self Construction in Delhi

- JJ Cluster
- Slum Designated Areas
- Unauthorized Colonies
- Resettlement Colonies
- Rural Villages
- Regularized-Unauthorized Colonies
- Urban Villages
- Planned Colonies

Source: DUEIIP 2021



साँई इलेक्ट्रीकल्स
MUKESH ELECTRICAL
साँई इलेक्ट्रीकल्स
S.T.D
I.S.D

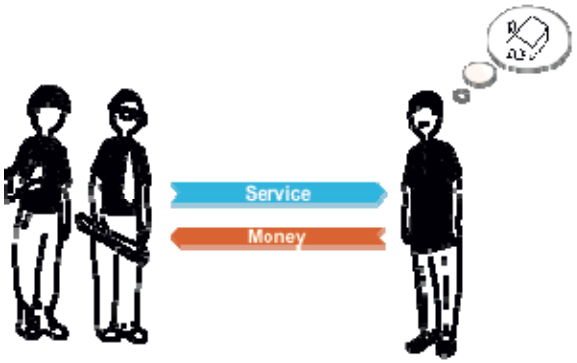
MICROFINANCE

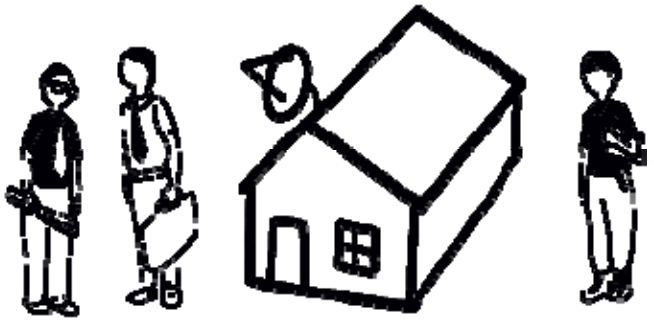
+

TECHNICAL ASSISTANCE

1

Formal System





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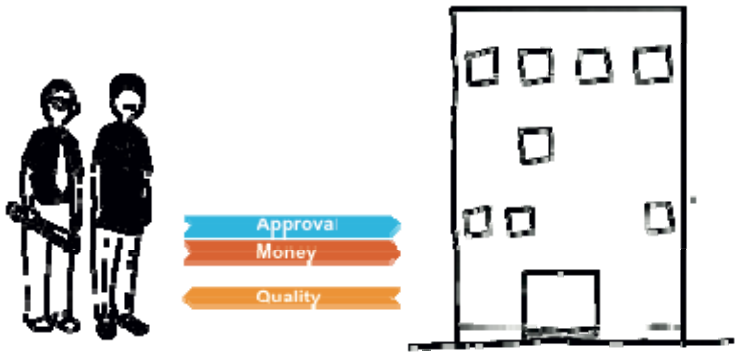
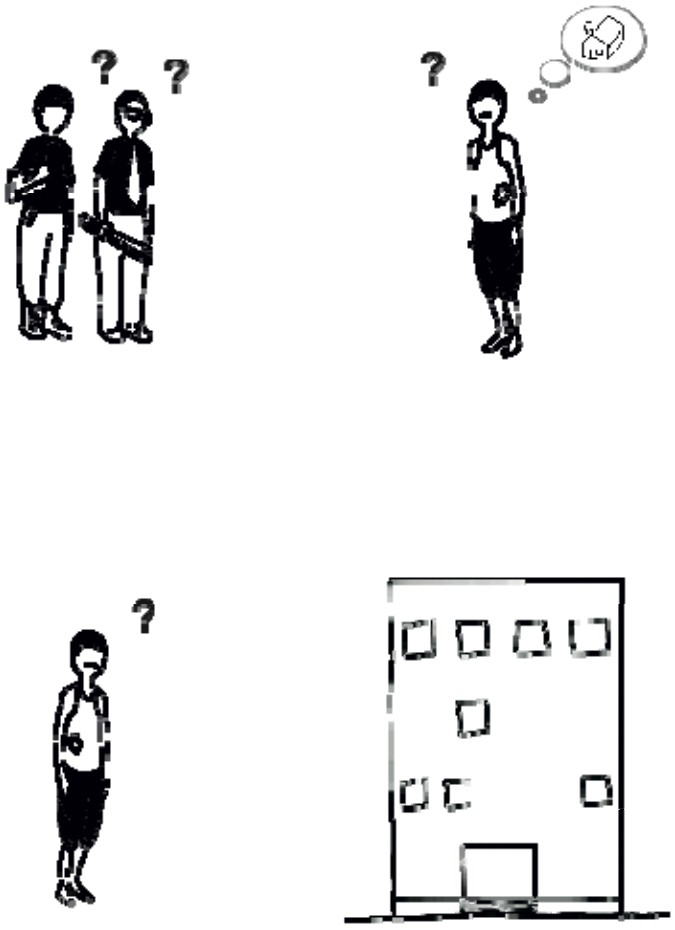


2

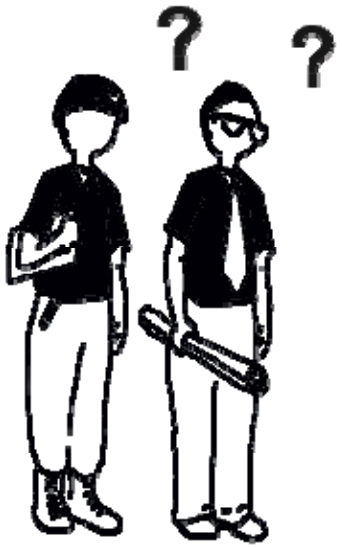
1

Non-Formal System



2

Current Problem



No need - Don't understand the value of services

Too expensive - No accessibility

Illegal Setting - Liability

Can’t Pay - No market opportunity

SCHEDULE OF COMBINED FOOTINGS :-

No.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

DETAILS OF COLUMNS :-

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
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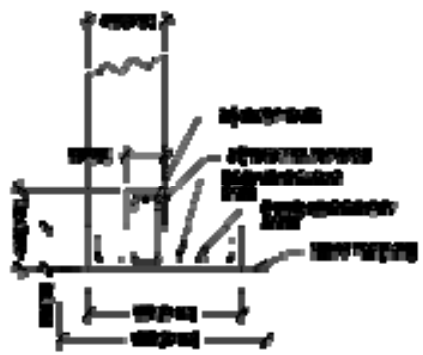

[illegible]

NOTES :-

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
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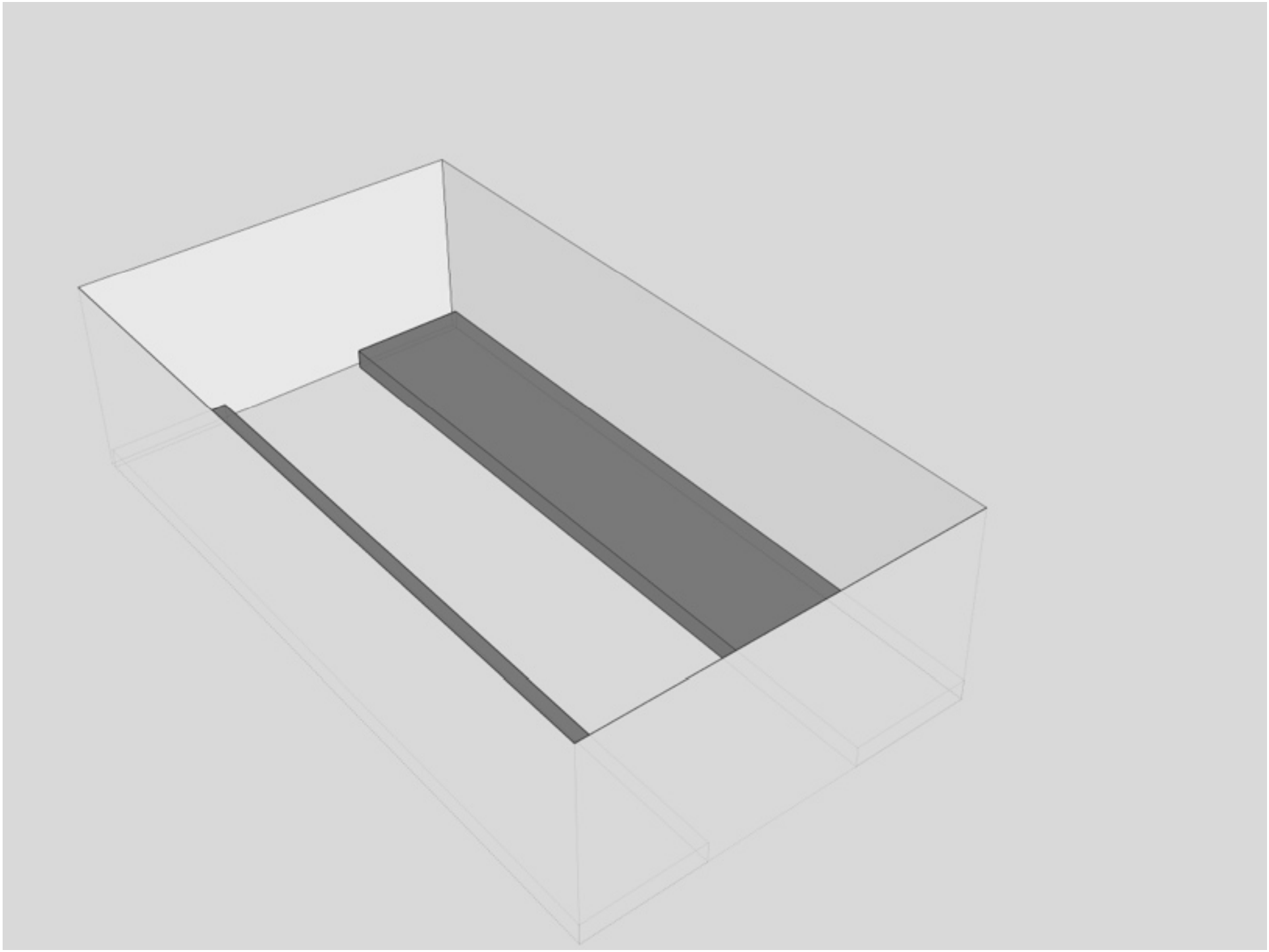
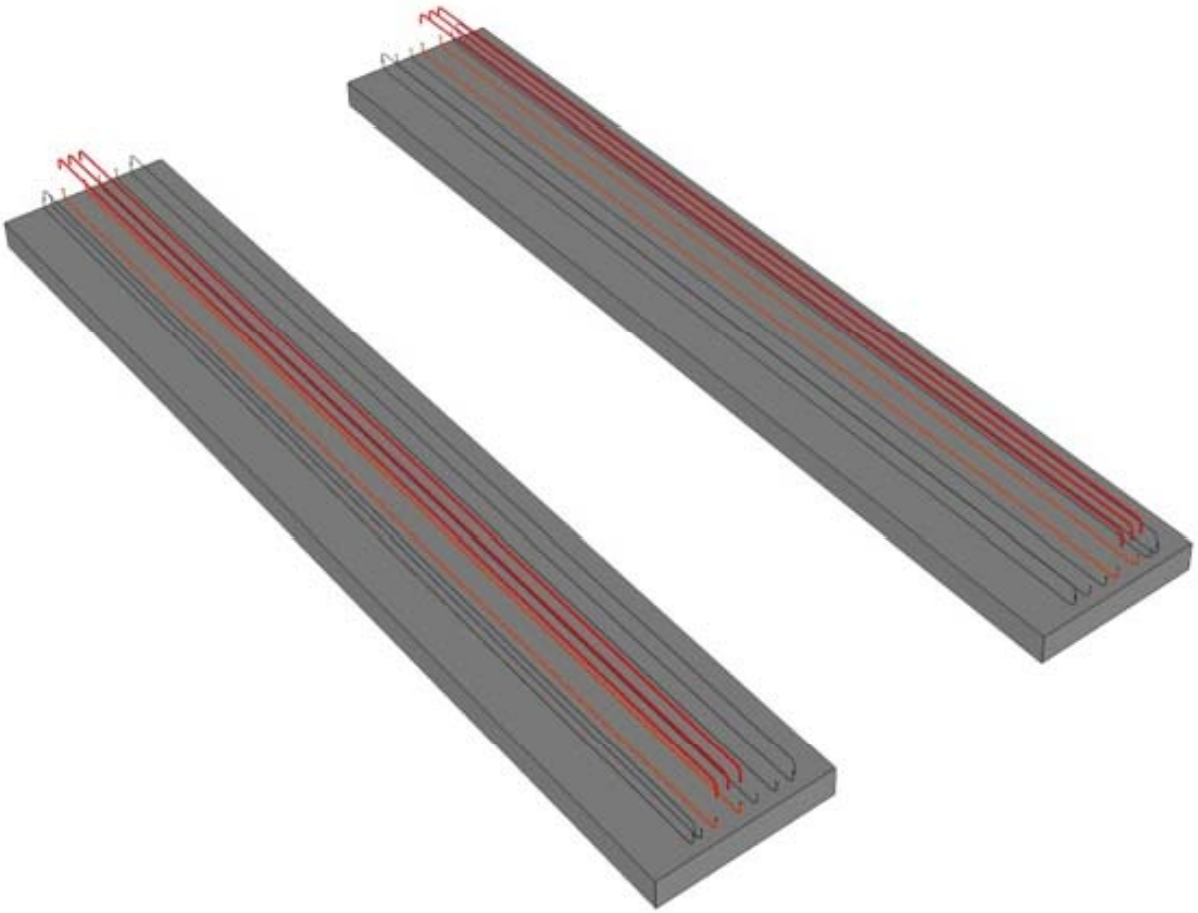
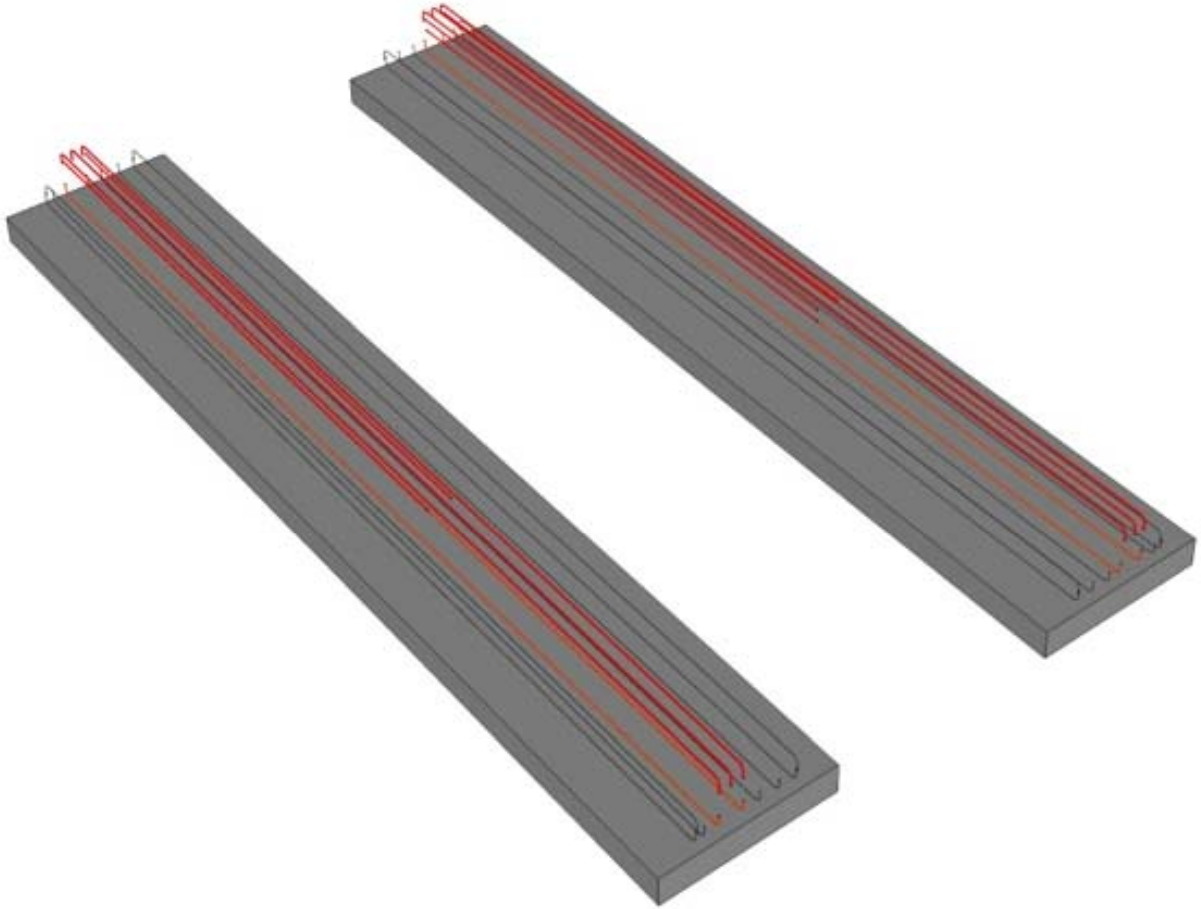
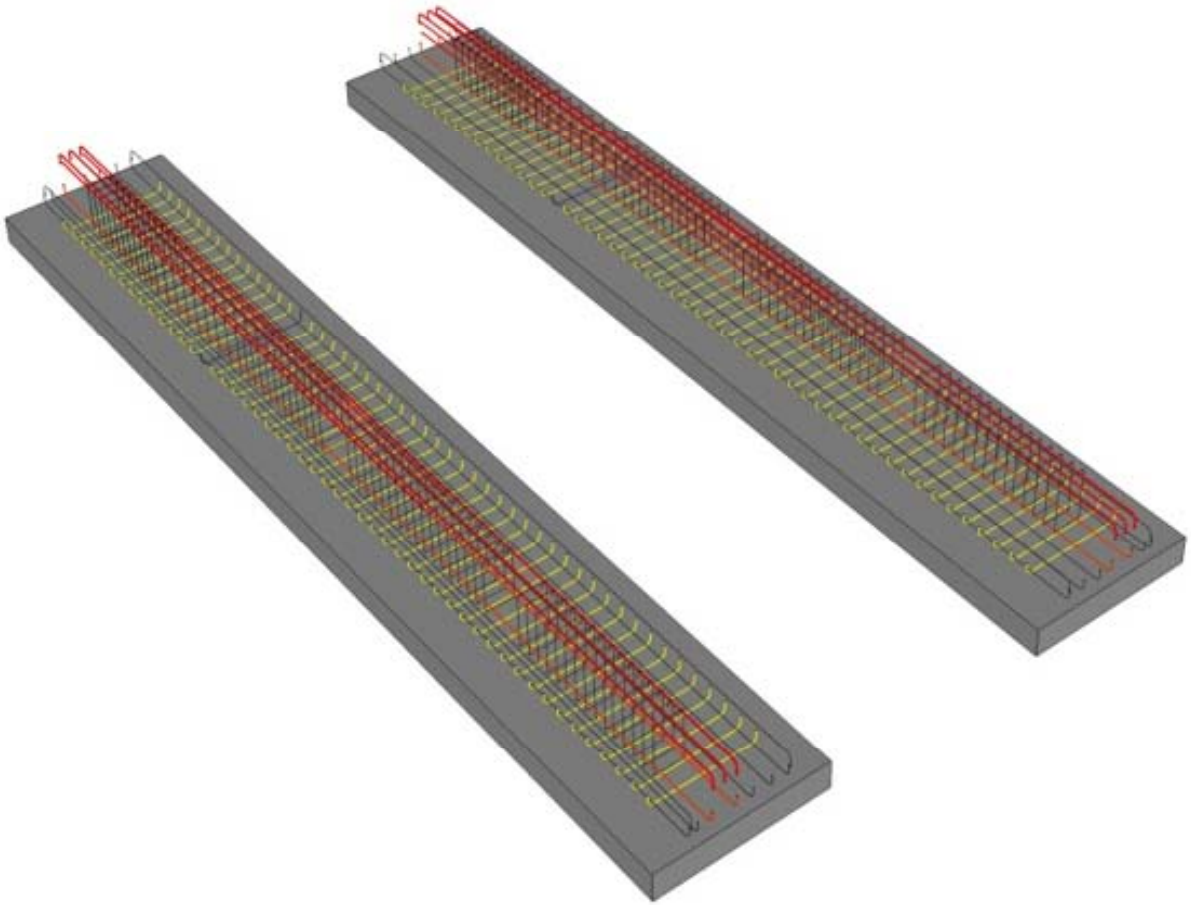
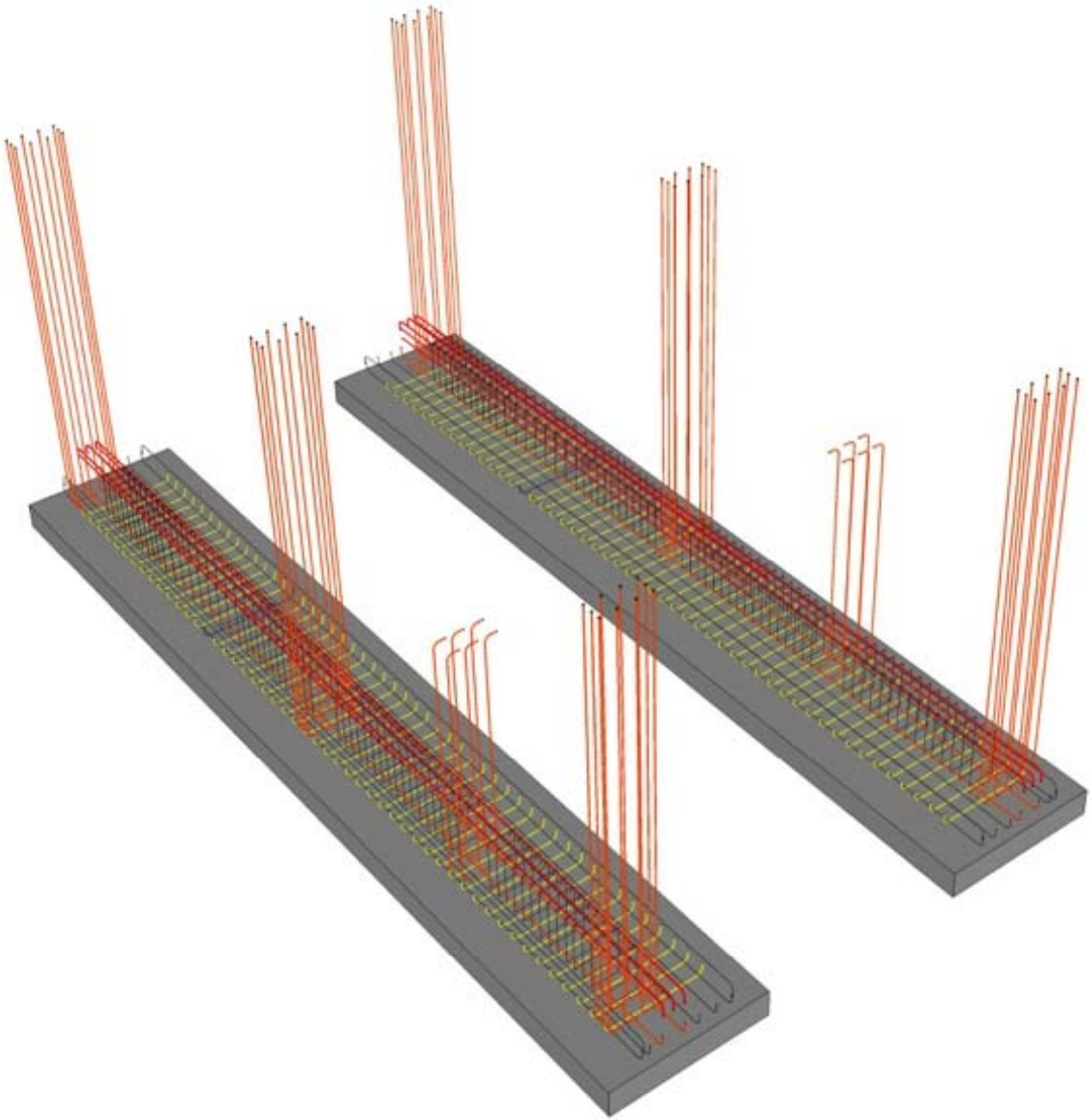
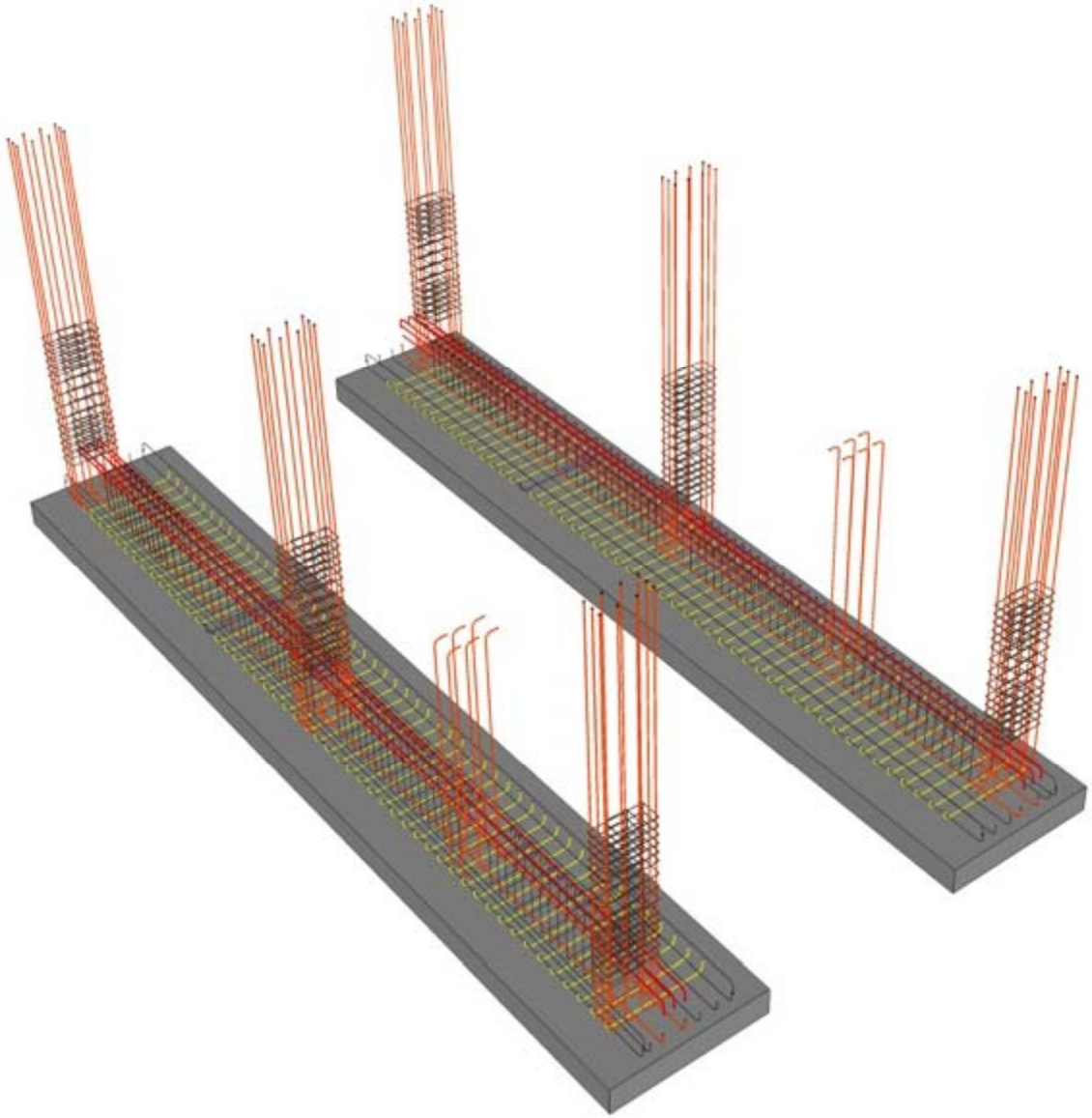


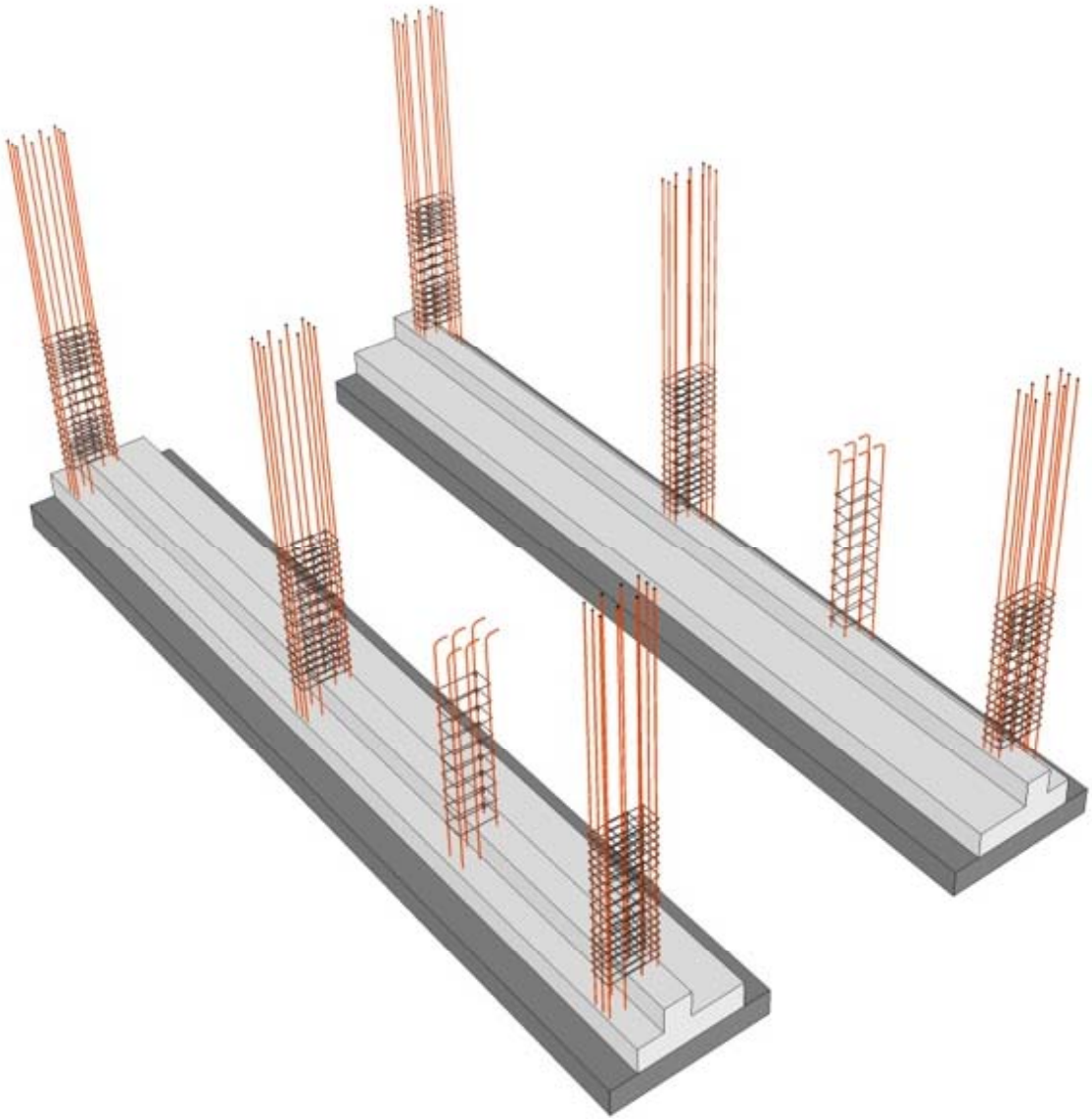


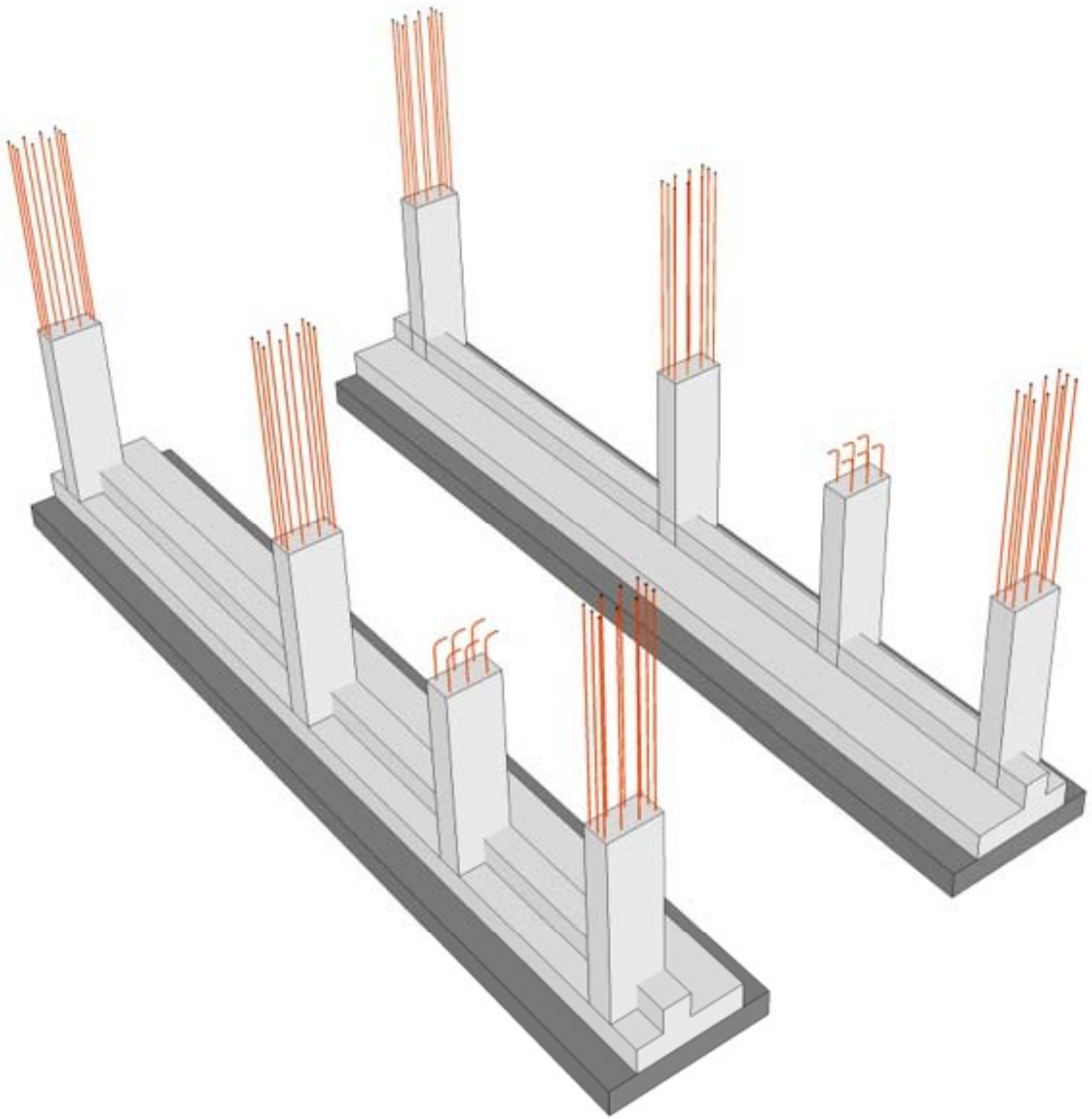


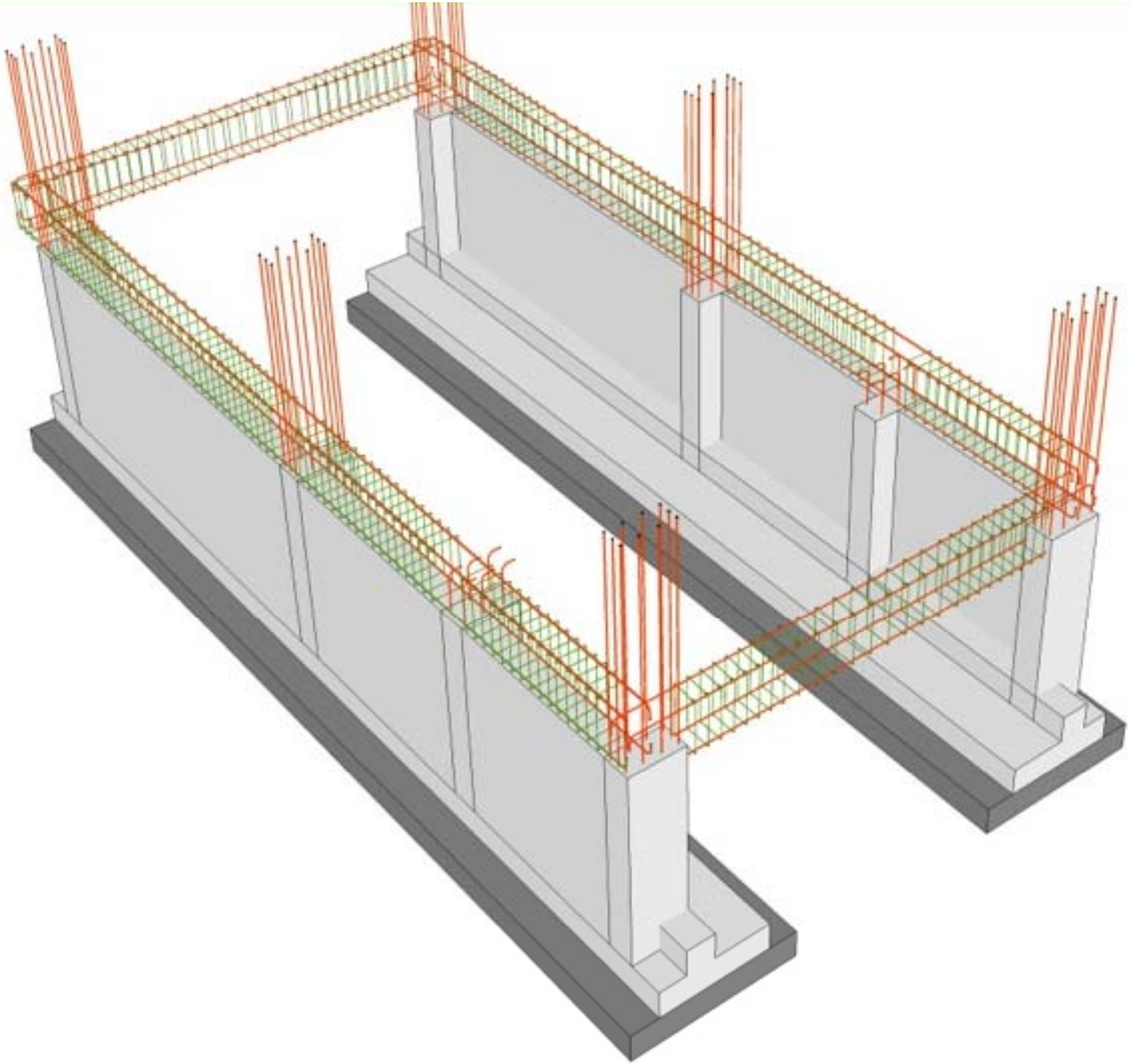


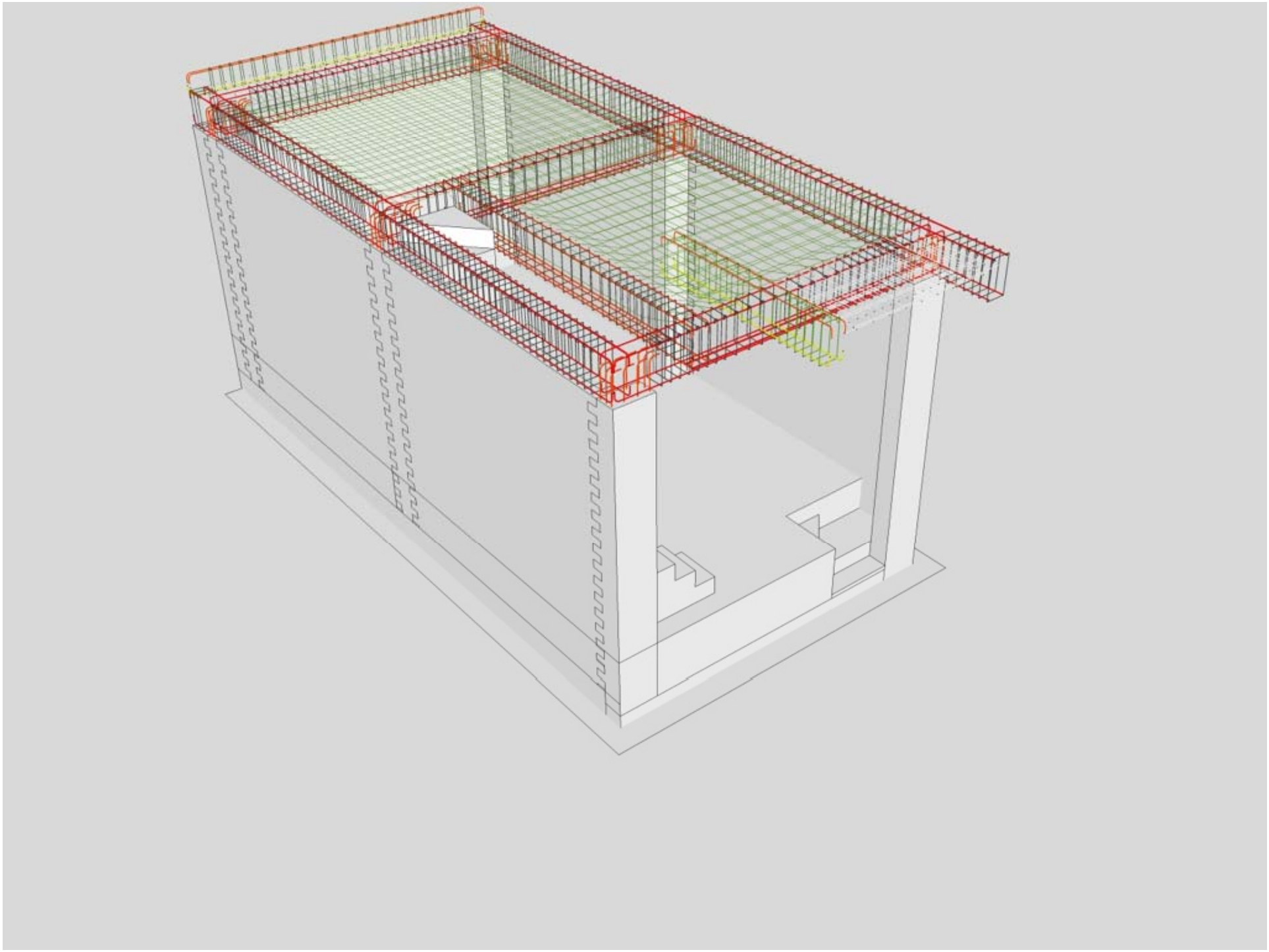












ORE

AFTER

mHS theory of change

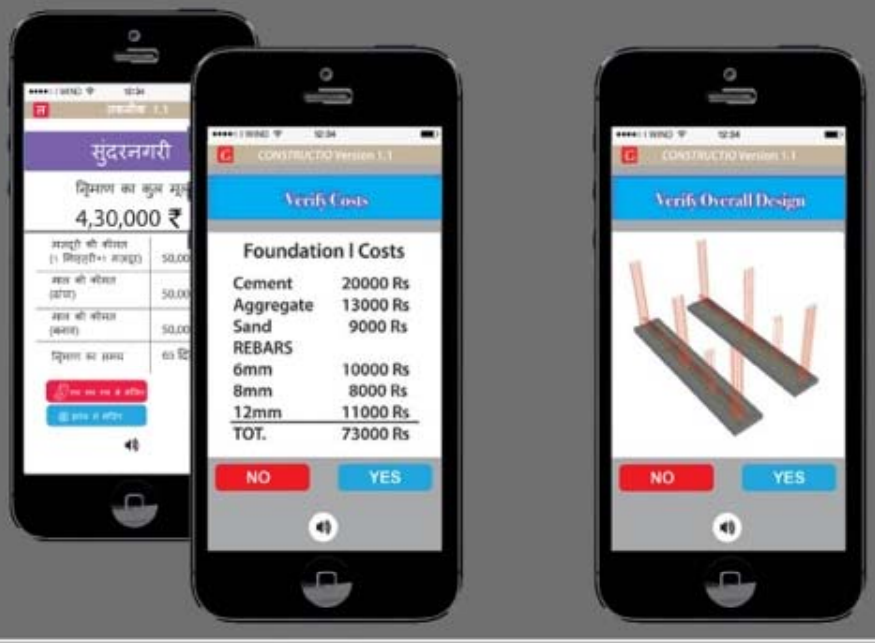
Appropriately designed technical training modules and customized inputs offered to masons and homeowners engaging in incremental housing can positively influence the quality of the buildings, especially in low-income communities. This is based on the observation that many gross mistakes are made due to lack of basic construction knowledge and that if corrected, the safety and quality of buildings could dramatically improve.

Digital tools able to deliver these services can became direct guides for masons and homeowners and improve the output of other interventions as mason's training programs or awareness campaigns on safety of structures. Digital tools can thus be critical to improve the quality and resilience of low-income rural and urban settlements.

MISTRIMAAN

multi lingual

customizable
wrt context



inputs
- Size
- Location
- No. of storeys
- Terrace access
- Septic tank

outputs
- Estimate
  - COST
  - MATERIAL
- Training Lessons
- Seismically safe Design
- Construction Monitoring

user groups
- Home-owners & Masons
- Financial Institutions
- Training Organisations

urban population of India
400 million

76 million
live in dense informal settlements
Source : UNDP, 2009

Improving the quality of INFORMAL HOUSING in Indian cities through MOBILE TECHNOLOGY

accessible

11%
skilled workers
Source : Government of India, 2008

lack of professional assistance

960.6 million wireless subscribers

58% URBAN | 42% RURAL

Source : Telecom Regulatory Authority of India Annual Report 2013-14

Projected smart phone users in India
200 million by 2016
280 million by 2018

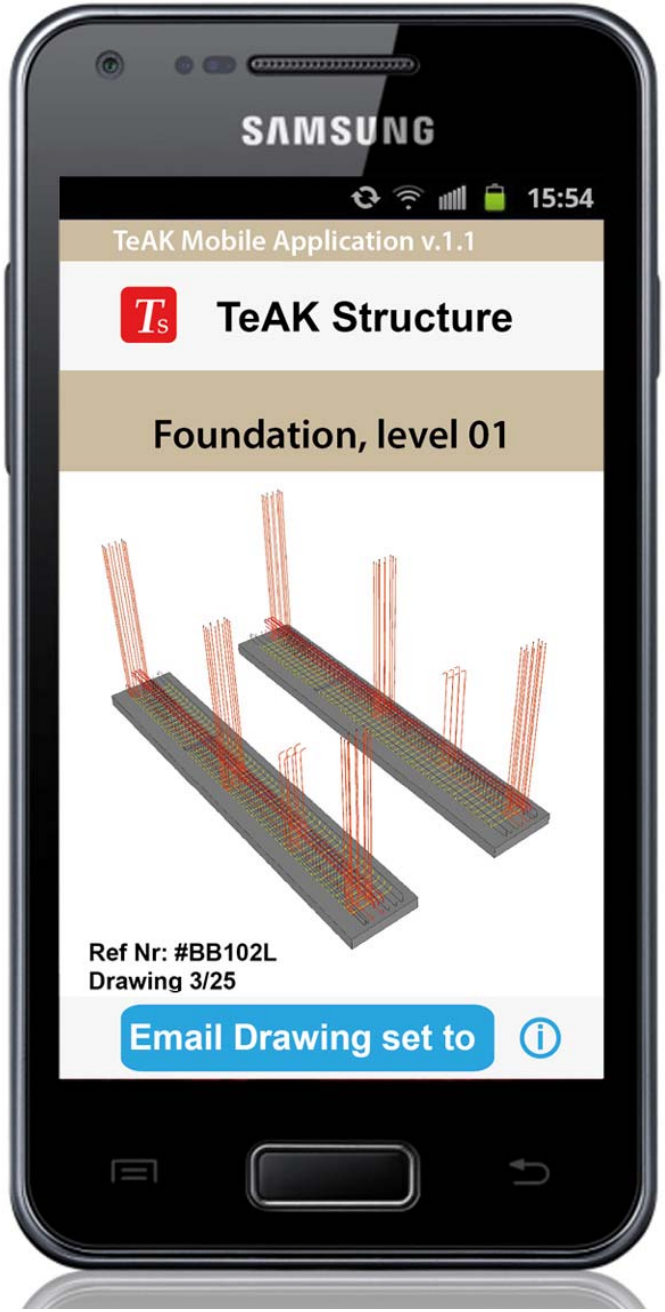
Source : eMarketer, 2014
2 Billion Consumers Worldwide to Get Smart(phones) by 2016

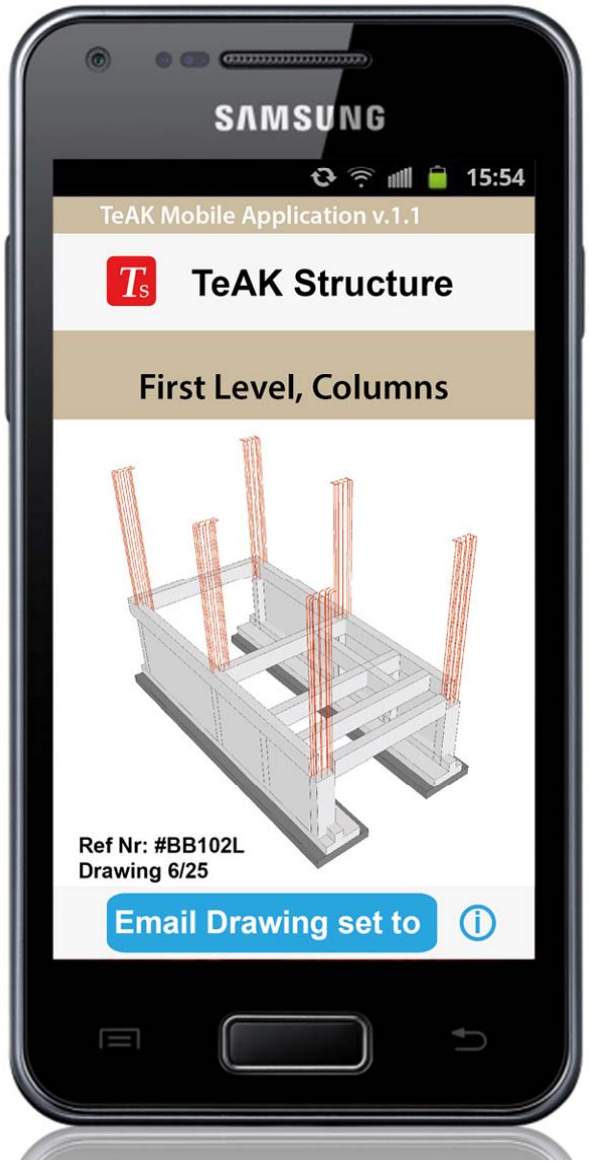
60%
smart phone users have android os

Source : Market share held by mobile operating systems in India from January 2012 to March 2015.Statista, 2015

average cost of a smart phone
- 2010 11,986 INR
- 2015 2,945 INR
- 2020 1,194 INR

Source : PriceBaba.com, 2014
India Android Consumption Report 2014


SAMSUNG
15:54
TeAK Mobile Application v.1.1
TeAK Structure
Foundation, level 01
Ref Nr: #BB102L
Drawing 3/25
Email Drawing set to


SAMSUNG
15:54
TeAK Mobile Application v.1.1
TeAK Structure
First Level, Columns
Ref Nr: #BB102L
Drawing 6/25
Email Drawing set to

●●●●○ I WIND
12:34
त
तकनीक 1.1
निर्माण सूचना
प्लाट का माप
?
प्लाट की लंबाइ व चोड़ाइ क्या है?
अगला

●●●●○ I WIND
12:34
त
तकनीक 1.1
निर्माण सूचना
कितनी मंज़िलें?
?
भूतल
एक मंज़िल
दो मंज़िल
अगला

●●●●○ I WIND
12:34
त
तकनीक 1.1
निर्माण सूचना
बधाइ हो !
आपका अनुमान
सुंदरनगरी
पूरा हो चुका है
मात्रा और मोल
देखीए

●●●●○ I WIND
12:34
त
तकनीक 1.1
सुंदरनगरी
निर्माण का कुल मूल्य
4,30,000 ₹
मज़दूरी की कीमत
(1 मिस्त्री+1 मज़दूर)
50,000 ₹
माल की कीमत
(ढांचा)
50,000 ₹
माल की कीमत
(बनाव)
50,000 ₹
निर्माण का समय
65 दिन
एस एम एस से भेजिए
@ इमेल से भेजिए

●●●●○ I WIND
12:34
त
तकनीक 1.1
सुंदरनगरी
नींव
मूल्य
सिमेंट : 18,000
रेत : 13,000
बजरी : 25,000
इंट : 13,000
मज़दूरी : 17 दिन
नींव की कुल कीमत
80,000 ₹
अगला

●●●●○ I WIND
12:34
त
तकनीक 1.1
सुंदरनगरी
नींव
मात्राएँ
सिमेंट : 50
रेत : 2
बजरी : 3
इंट : 3000
समय : 30 दिन
अगला

ASPIRATIONS + DESIRES
MANOJ
DIGITAL LITERACY
POTENTIAL VALUE
CAREER DREAM
FEEDBACK
AGREEMENT
FINISH WORK
AGREEMENT
FIND WORK
ACCURACY IN ESTIMATE
BRIDGE TRUST DEFICIT
AGREEMENT

vodafone 3G
Faster. Smarter. Better.
alaxmi Telecom
बना रहे हो मकान?
हम देंगे अनुमान!
TELICOM
Sale Purchase of
All Mobile,
Memory Card
Downloading
Recharge &
Accessories
MAHALAXMI
TELICOM
Sale Purchase of All Mobile,
Memory Card, Downloading,
Recharge & Accessories
ALL MOBILE REPAIR
8800968286
8802884491
9289645405
RELIANCE
25
1GB
58
A2A STD
194

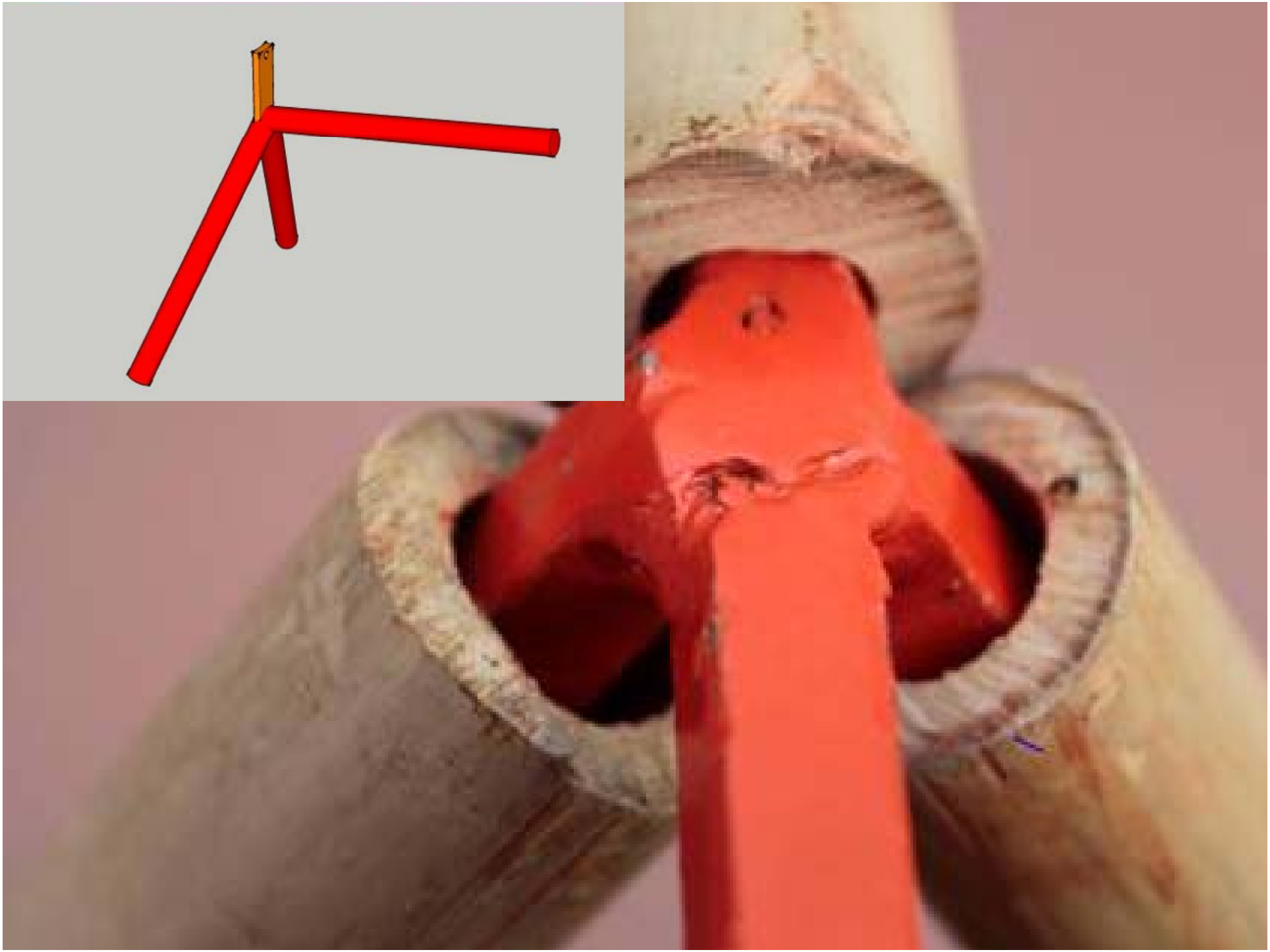
Jewellers
All Kinds of : Gold & Silver Ornaments
R.S.
All Kinds Of Gold And
Silver Ornament
DELHI-110093
maxx™

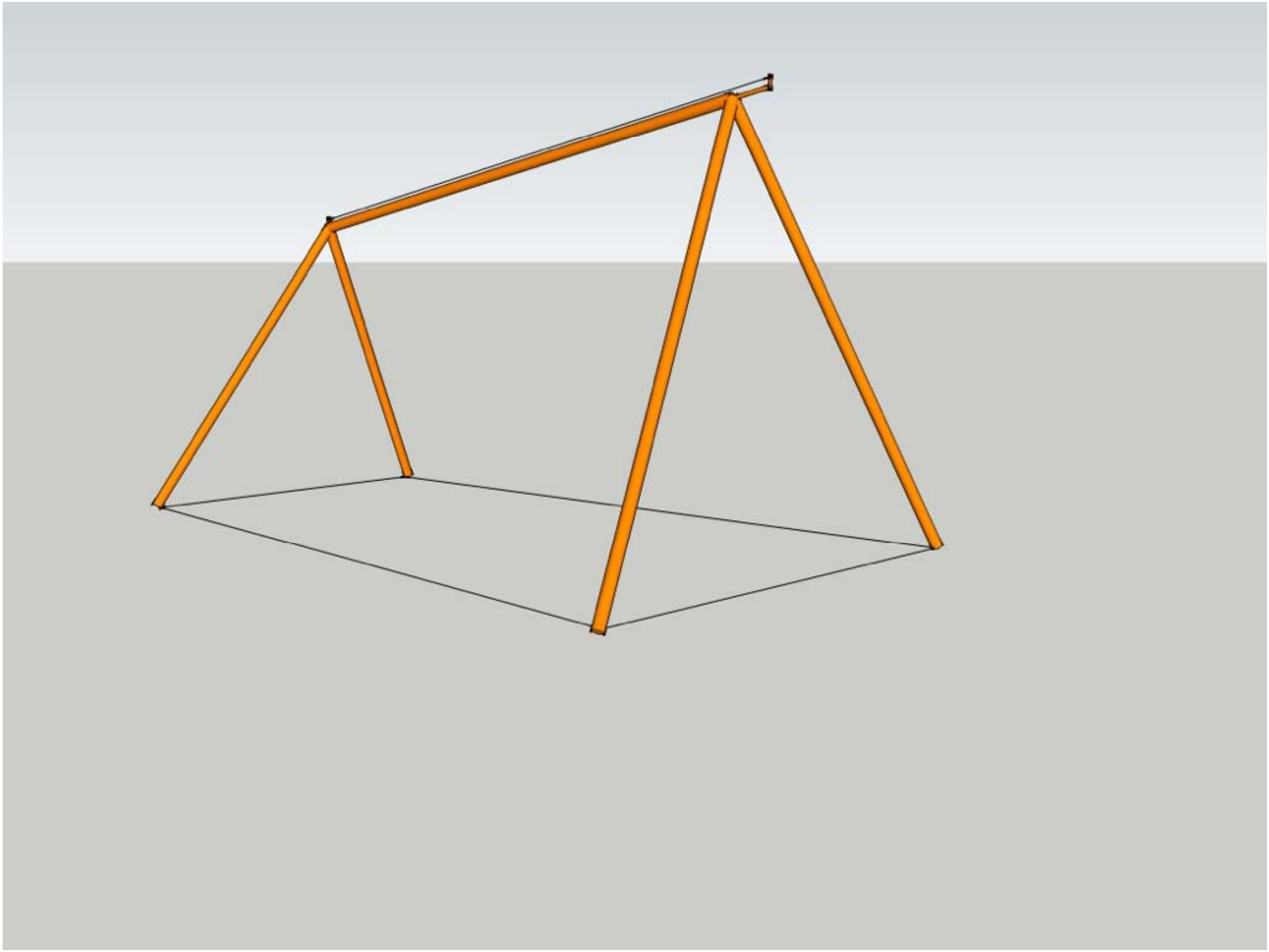
8527488778
1GB
58
Full Talktime
airtel 4G
बना रहे हो मकान?

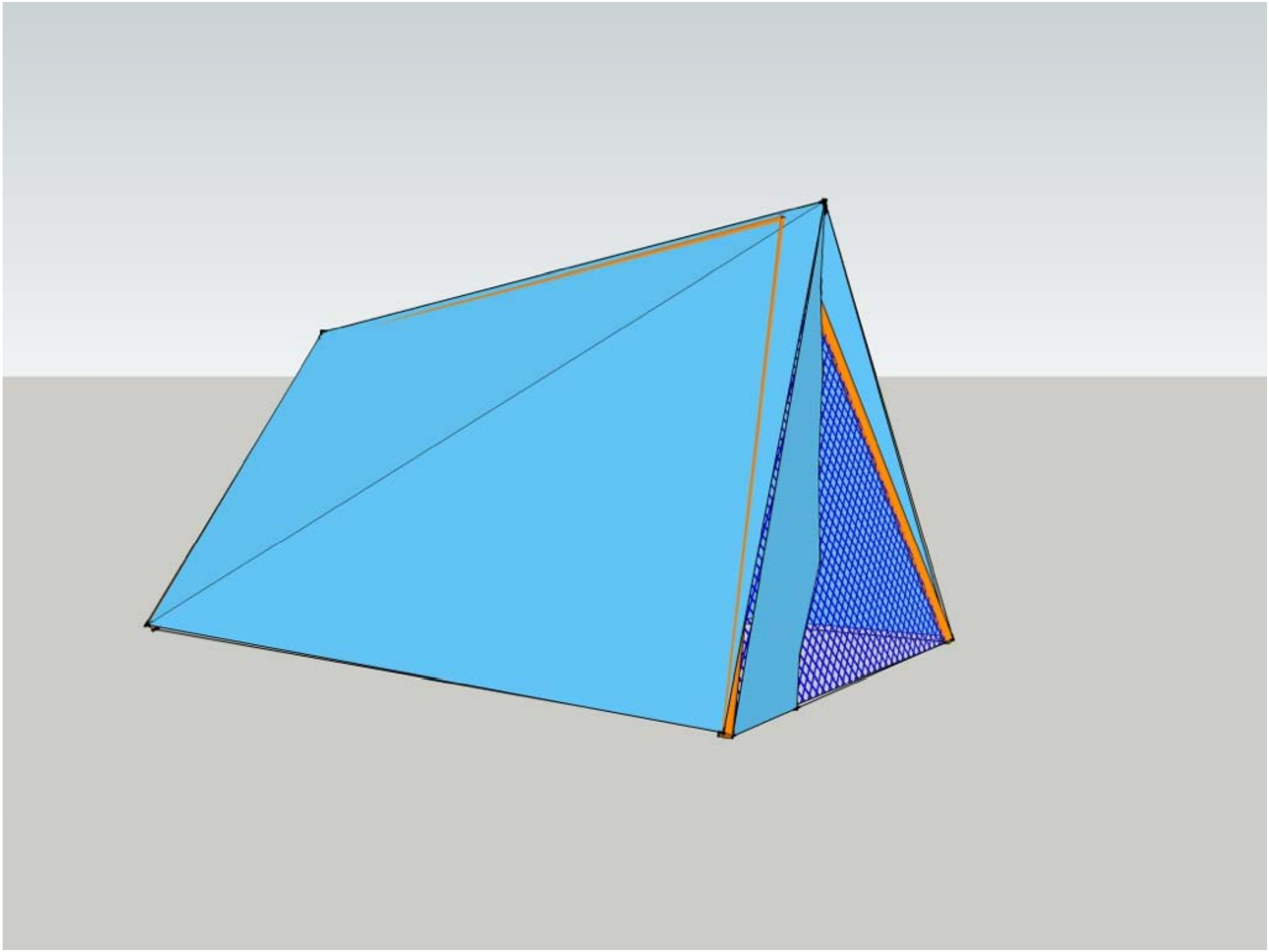
मोबाईल रिपेयर, डाऊनलोडिंग, नये कनेक्शन, मैमोरी कार्ड
SANSUI MOBILE
मात्र 999 में
8GB मैमोरी कार्ड फ्री।
बना रहे हो मकान?
हम देंगे अनुमान!
केवल 20 रुपए
पसंद नहीं तो पैसे वापस
केवल दो दिन के लिए यह सुविधा आपके यहाँ
29 फरवरी & 1 मार्च - महालक्ष्मी टैलिकॉम
F-1/116 सुलदरनगरी 110093
या कॉल करें
8527488778

MADHURAM'S
Resort & Travels

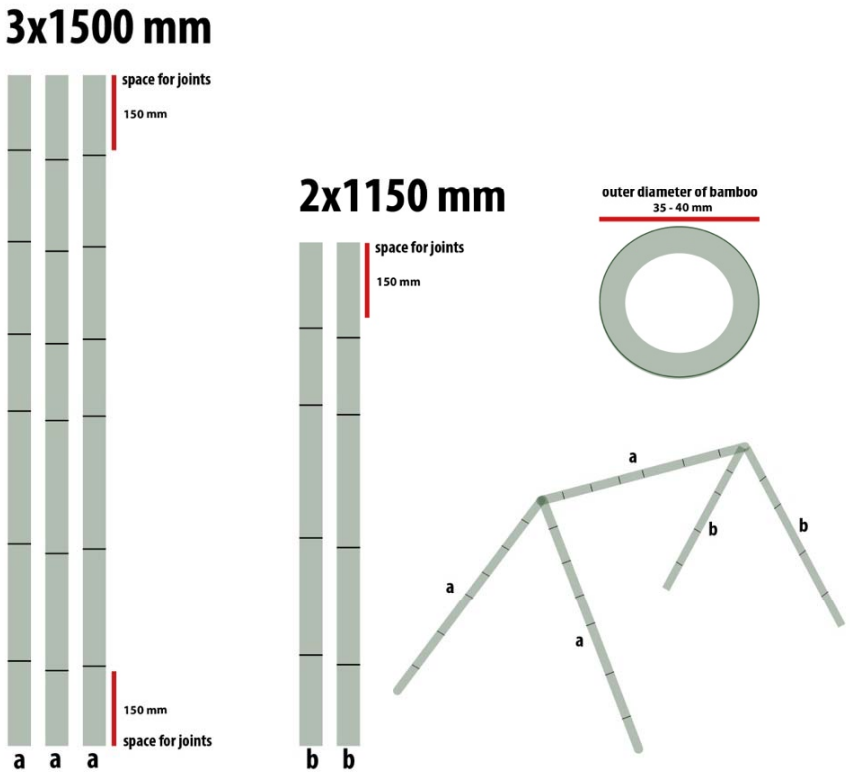
ek
SHELTER



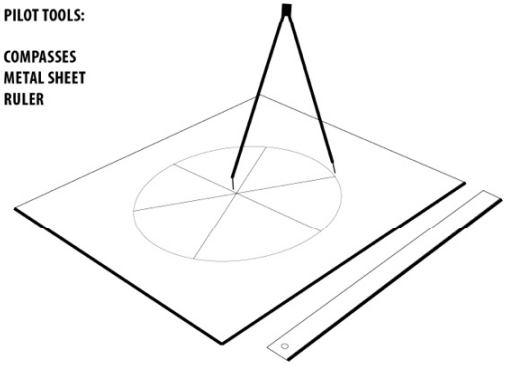


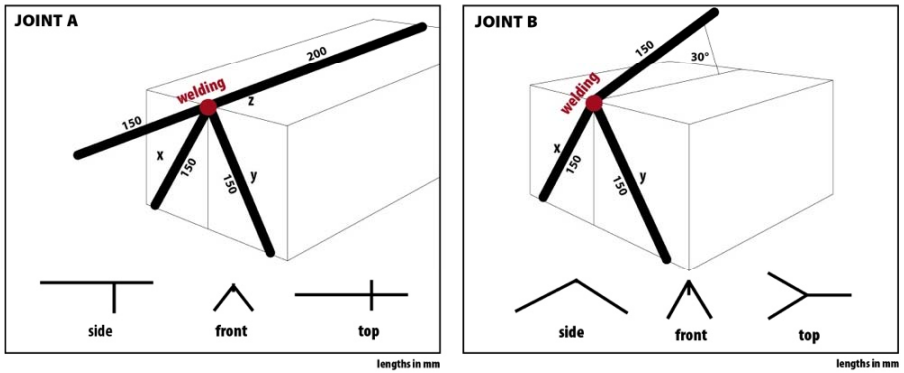


CUTTING THE BAMBOO

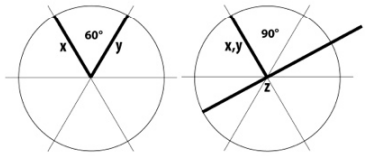


WELDING THE JOINTS





angles required for joint A:



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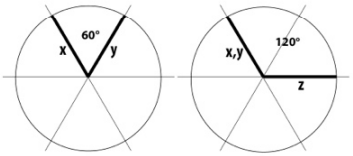


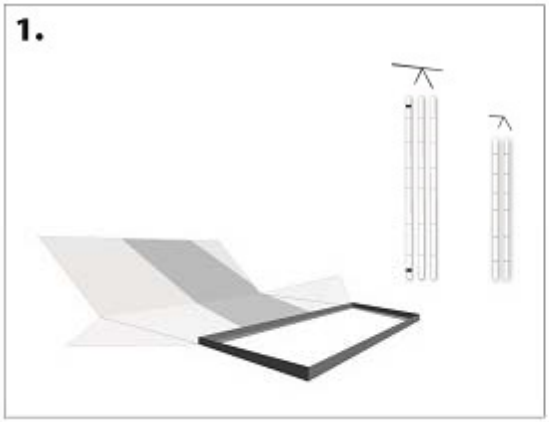
ek SHELTER

एक शरण

INSTRUCTION FOR ASSEMBLY

निर्माण के लिए निर्देश

1.



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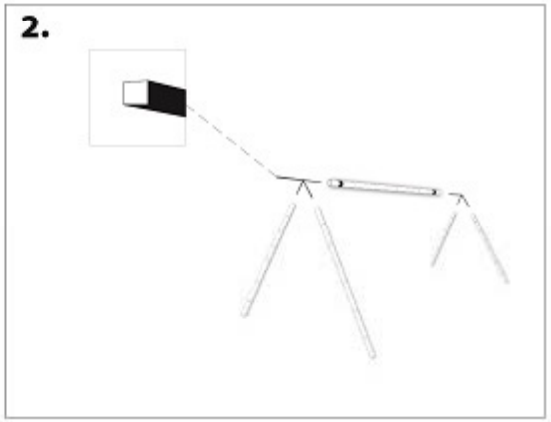

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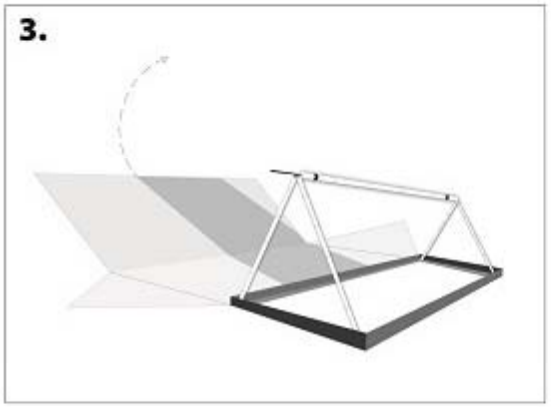

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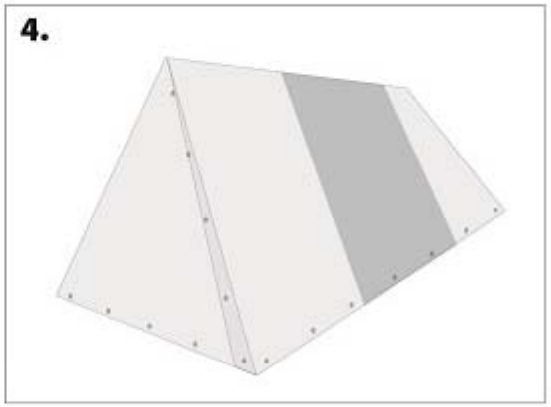

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mHS CITY LAB

SHELTER
45

SPEED
LIMIT
Thank you!